

BUILT TO A HIGHER STANDARD[®]

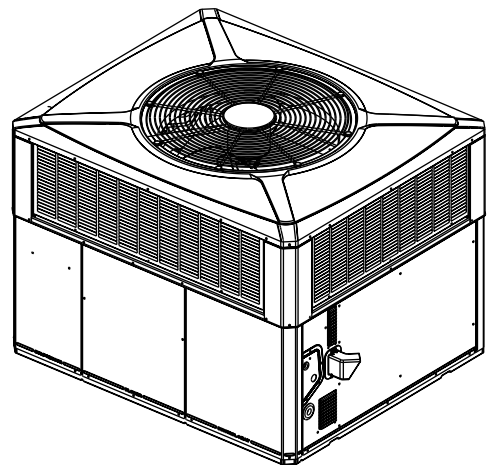
American Standard[®]

HEATING & AIR CONDITIONING

Product and Submittal Data

Single Packaged Gas/Electric, Priority, 2 to 5 Ton, 60 - 115 KBTU, R-454B

5YCZ5024A1060A
5YCZ5030A1070A
5YCZ5036A1070A
5YCZ5036A1090A
5YCZ5042A1090A
5YCZ5048A1090A
5YCZ5048A1115A
5YCZ5060A1115A
5YCZ5036A3070A
5YCZ5036A3090A
5YCZ5048A3090A
5YCZ5048A3115A
5YCZ5060A3115A
5YCZ5036A4070A
5YCZ5036A4090A
5YCZ5048A4090A
5YCZ5048A4115A
5YCZ5060A4115A



Note: Graphics in this document are for representation only.
Actual model may differ in appearance.

Introduction

Single Packaged Convertible Gas/Electric Systems are easy and versatile to install.

Because cooling and heating functions are all contained in a single cabinet, a American Standard Heating & Air Conditioning single package convertible gas/electric system is easy to install and service. It can be flush mounted beside your home at ground level or placed on the roof for horizontal or downflow installation. When connected to an optional American Standard Heating & Air Conditioning thermostat control and air distribution ducts, you have a highly efficient, total home comfort system.

Single Packaged Convertible Gas/Electric Systems are unmatched in quality and reliability.

All major components on these products, including the compressor, have been designed and manufactured for maximum service. Every Climatuff® two stage compressor is designed and manufactured to exacting specifications. Each design is life tested in extreme environments to ensure reliable and long lasting operation in normal applications. Each compressor has internal motor protection for added reliability.

Single Packaged Convertible Gas/Electric Systems provide better performance.

American Standard Heating & Air Conditioning offers a complete family of packaged gas/electric heating and cooling systems, designed to give you the unbeatable combination of energy efficiency and lower operating costs. In warm weather, the package gas/electric system functions as an all-electric, high efficiency air conditioner. In cold weather, it operates as a natural gas or propane gas furnace, offering you the best of both energy worlds.

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Revision History

- Updated Optional Equipment Listing table, and added Adaptor Kit for AccuClean and Media Filter.
- Updated Product specification tables.
- Updated Wiring diagrams images.

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Optional Equipment Listing

Table 1. Optional equipment listing

Hinged Filter Access Door (5YCZ5024-036) ^(a)	BAYACCDOR1A []
Hinged Filter Access Door (5YCZ5042-060) ^(a)	BAYACCDOR2A []
Roof Curb Full Perimeter (5YCZ5024-036A) ^(b)	BAYCURB050B []
Roof Curb Full Perimeter (5YCZ5042-060A) ^(b)	BAYCURB051B []
Roof Curb Utility Extension Kit (Used with BAYCURB050B)	BAYUTIL101B []
Roof Curb Utility Extension Kit (Used with BAYCURB051B)	BAYUTIL102B []
Outside Air Control for V S Economizer (5YCZ5024-060A) ^(c)	BAYOSAC001C []
0-25% Motorized Outside Air Damper (5YCZ5024-036)	BAYDMPR101A []
0-25% Motorized Outside Air Damper (5YCZ5042-060)	BAYDMPR102A []
0-25% Manual Fresh Air Damper (5YCZ5024-036A) ^(d)	BAYOSAH001A []
0-25% Manual Fresh Air Damper (5YCZ5042-060A) ^(d)	BAYOSAH002A []
0-100% Mod Economizer w/Baro Relief (5YCZ5024-036A) ^{(d)(e)(f)}	BAYECON107A []
0-100% Mod Economizer w/Baro Relief (5YCZ5042-060A) ^{(d)(e)(f)}	BAYECON108A []
0-100% Horizontal Economizer (5YCZ5024-036A) ^{(d)(e)}	BAYECON207A []
0-100% Horizontal Economizer (5YCZ5042-060A) ^{(d)(e)}	BAYECON208A []
Enthalpy Control for Economizer (solid state)	BAYENTH001A []
Remote Potentiometer (Used with all BAYECON)	BAYSTAT023 []
1 to 2-in Filter Frame (5YCZ5024-036A) (20 x 25 filter not included) ^{(a)(d)}	BAYFLTR101 C []
1 to 2-in Filter Frame (5YCZ5042-060A) (20 x 20,20 X 18 filter not included) ^{(a)(d)}	BAYFLTR201C []
LP Conversion Kit (All 40K and 120K models)	BAYLPKT100C []
LP Conversion Kit (All 64K, 70K, and 96K models)	BAYLPKT101C []
LP Conversion Kit (All 75K models)	BAYLPKT102C []
LP Conversion Kit (All 60K and 90K models)	BAYLPKT103A []
LP Conversion Kit (All 115K models)	BAYLPKT104A []
Evaporator Defrost Control (Low Ambient Cooling) Kit	BAYLOAM101A []
Head Pressure Control (Low Ambient Cool) (208/240v) Kit ^(g)	BAYLOAM105A []
Crankcase Heater Scroll(5YCZ5048,060 1/3)(230v) ^(g)	BAYCCHT102A []
Crankcase Heater Scroll(5YCZ5024-036)(230v) ^(g)	BAYCCHT103A []
Crankcase Heater Scroll(5YCZ5048,060)(460v) ^(g)	BAYCCHT404B []
Crankcase Heater Scroll (5YCZ5036)(460v) ^(g)	BAYCCHT405A []
Adapter Curb (5YCZ5024-036A) to BAYCURB030,38	BAYADAP050A []
Adapter Curb (5YCZ5024-036A) to BAYCURB033	BAYADAP051A []
Adapter Curb (5YCZ5048-060A) to BAYCURB030,38	BAYADAP052A []
Adapter Curb (5YCZ5048-060A) to BAYCURB033	BAYADAP053A []
Adapter Curb (5YCZ5048-060A) to BAYCURB034	BAYADAP054A []
12-in Duct Shroud Covers Horizontal (5YCZ5024-060A) ^(h)	BAYCOVR112A []
18-in Duct Shroud Covers Horizontal (5YCZ5024-060A) ^(h)	BAYCOVR118A []
Extreme Condition Mounting Kit - All BAYCURB and BAYADAP	BAYEXMK001A []
Extreme Condition Mounting Kit - All BAYUTIL	BAYEXMK002B []
Extreme Condition Mounting Kit - All Slab Mounts	BAYEXMK003A []
Lifting Lug Kit - All models	BAYLIFT002B []
Adaptor Kit for Installation of CleanEffects and 5-in. Media Filter (Horizontal) (5YCZ5024-036)	BAYACCEADP1B []
Adaptor Kit for Installation of CleanEffects and 5-in. Media Filter (Horizontal) (5YCZ5042-060)	BAYACCEADP2B []

^(a) BAYACCDOR1A requires BAYFLTR101C and BAYACCDOR2A requires BAYFLTR201C. They are not backward compatible to BAYFLTR101/201A.

^(b) Ships knocked down.

^(c) BAYOSAC001C is not compatible with BAYACCDOR1A or BAYACCDOR2A.

^(d) Must use filter frame when economizer/fresh air kit is used.

^(e) Dry bulb control standard with economizer.

^(f) Downflow only.

^(g) Low Ambient cooling requires crankcase heater (BAYCCHT-A).

^(h) BAYCOVR112,118A will not cover 18-in square-to-round applications.

Product Specifications

Table 2. Models – 5YCZ5024A1060A, 5YCZ5030A1070A, 5YCZ5036A1070A, and 5YCZ5036A1090A

Units	5YCZ5024A1060A	5YCZ5030A1070A	5YCZ5036A1070A	5YCZ5036A1090A
Rated Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
Performance Cooling BTUH (High) ^(a)	24000	31200	35800	35800
Indoor Airflow (CFM) (High)	770	1030	1070	1070
Power Input (kW)	1.96	2.63	3.03	3.03
BTUH (Low)	18600	25000	27800	27800
Indoor Airflow (CFM) (Low)	580	800	840	840
Power Input (kW)	1.07	1.49	1.75	1.75
EER2 / SEER2	11.5/15.2	11.5/15.2	11.5/15.2	11.5/15.2
Sound Power Rating [dB(A)] ^(b)	65.4	69.5	70	70
Performance Heating^(c)				
Input BTUH-1st Stage	48000	56000	56000	72000
Input BTUH-2nd Stage	60000	70000	70000	90000
AFUE	81	81	81	81
Temp rise-Min/Max (°F)	40 / 70	30 / 60	30 / 60	40 / 70
Orifice Qty/Drill Size (Nat Gas) ^(d)	2 / #37	2 / #33	2 / #33	3 / #37
Power Conn. — V/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
Min. Brch. Cir. Ampacity ^(e)	18	23	23	23
Fuse Size — Max/Rec (A)	25/25	35/35	35/35	35/35
Compressor	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
R.L. Amps — L.R. Amps	10.3/62	14.6/82	14.6/90	14.6/90
Outdoor Coil — Type	Spine Fin	Spine Fin	Spine Fin	Spine Fin
Rows/F.P.I	2/24	2/24	2/24	2/24
Face Area (sq. ft.)	13.32	15.49	15.49	15.49
Tube Size (in.)	3/8	3/8	3/8	3/8
Refrigerant Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Indoor Coil — Type	MCHE	Plate Fin	Plate Fin	Plate Fin
Rows/F.P.I	2/16	4/15	4/15	4/15
Face Area (sq. ft.)	2.7	3.54	3.54	3.54
Tube Size (in.)	1	3/8	3/8	3/8
Refrigeration Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Drain Conn. Size (in.)	3/4 Female NPT	3/4 Female NPT	3/4 Female NPT	3/4 Female NPT
Outdoor Fan — Type	Propeller	Propeller	Propeller	Propeller
Dia. (in.)	23.4	23.4	23.4	23.4
Drive/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1
CFM @ 0.0 in. w.g. ^(f)	2550	3000	3000	3000
Motor — HP/R.P.M	1/12/810	1/6/830	1/6/830	1/6/830
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
F.L. Amps/L.R Amps	0.54/0.82	0.85/1.95	0.85/1.95	0.85/1.95
Indoor Fan — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal

Product Specifications

Table 2. Models – 5YCZ5024A1060A, 5YCZ5030A1070A, 5YCZ5036A1070A, and 5YCZ5036A1090A (continued)

Units	5YCZ5024A1060A	5YCZ5030A1070A	5YCZ5036A1070A	5YCZ5036A1090A
Dia. x Width (in.)	10.62 X 10.62	10.62 X 10.62	10.62 X 10.62	10.62 X 10.62
Drive/No. Speeds	Direct/Variable	Direct/Variable	Direct/Variable	Direct/Variable
CFM @ 0.0 in. w.g. ^(g)	See Indoor Fan Performance Table			
Motor—HP/R.P.M.	1/2/Variable	1/2/Variable	1/2/Variable	1/2/Variable
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
F.L. Amps	4.3	4.3	4.3	4.3
Combustion Fan — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Drive/No. Speeds	Direct / 2	Direct / 2	Direct / 2	Direct / 2
Motor — HP/R.P.M.	1/20 / 3350/2600	1/20 / 3350/2600	1/20 / 3350/2600	1/20 / 3350/2600
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
Filter/ Furnished	No	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway	Throwaway
Recmd. Face Area (sq. ft) ^(h)	4.0	4.0	4.0	4.0
Refrigerant	R-454B	R-454B	R-454B	R-454B
Charge (lbs.)	7	7.1	6.7	6.7
Subcooling	7° F	10° F	9° F	9° F
Dimensions	H x W x L			
Crated(in.)	46 x 45 x 52	48 x 45 x 52	48 x 45 x 52	48 x 45 x 52
Weight				
Shipping(lbs.) / Net(lbs.)	444 / 374	493 / 397	492 / 396	497 / 401

(a) Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240. Noise calculated in accordance with AHRI Standard 270.

(b) Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

(c) All models are certified to UL 60335. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

(d) Convertible to LPG.

(e) This value is approximate. For more precise value, see Unit Nameplate.

(f) Standard Air - Dry Coil - Outdoor.

(g) Based on U.S. Government Standard Tests.

(h) Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05-in W.C.

Table 3. Models – 5YCZ5042A1090A, 5YCZ5048A1090A, 5YCZ5048A1115A, and 5YCZ5060A1115A

Units	5YCZ5042A1090A	5YCZ5048A1090A	5YCZ5048A1115A	5YCZ5060A1115A
Rated Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
Performance Cooling BTUH (High) ^(a)	43000	48000	48000	60000
Indoor Airflow (CFM) (High)	1390	1580	1580	1780
Power Input (kW)	3.5	4.01	4.01	5.12
BTUH (Low)	34400	38000	38000	46000
Indoor Airflow (CFM) (Low)	1020	1160	1160	1270
Power Input (kW)	1.98	2.21	2.21	2.86
EER2 / SEER2	11.5/15.2	11.5/15.2	11.5/15.2	11.5/15.2
Sound Power Rating [dB(A)] ^(b)	71	71	71	73
Performance Heating^(c)				
Input BTUH-1st Stage	72000	72000	92000	92000
Input BTUH-2nd Stage	90000	90000	115000	115000
AFUE	81	81	81	81
Temp rise-Min/Max (°F)	30 / 60	30 / 60	40 / 70	30 / 60

Table 3. Models – 5YCZ5042A1090A, 5YCZ5048A1090A, 5YCZ5048A1115A, and 5YCZ5060A1115A (continued)

Units	5YCZ5042A1090A	5YCZ5048A1090A	5YCZ5048A1115A	5YCZ5060A1115A
Orifice Qty/Drill Size (Nat Gas) ^(d)	3 / #37	3 / #37	3 / #32	3 / #32
Power Conn. — V/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
Min. Brch. Cir. Ampacity ^(e)	30	31	31	40
Fuse Size — Max/Rec (A)	45/45	45/45	45/45	60/60
Compressor	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
R.L. Amps — L.R. Amps	18.2/106	18.3/138	18.3/138	25.2/147.3
Outdoor Coil — Type	Spine Fin	Spine Fin	Spine Fin	Spine Fin
Rows/F.P.I	2/24	2/24	2/24	2/24
Face Area (sq. ft.)	23.57	23.57	23.57	23.57
Tube Size (in.)	3/8	3/8	3/8	3/8
Refrigerant Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Indoor Coil — Type	Plate Fin	Plate Fin	Plate Fin	Plate Fin
Rows/F.P.I	4/15	4/15	4/15	4/15
Face Area (sq. ft.)	5.0	5.0	5.0	5.0
Tube Size (in.)	3/8	3/8	3/8	3/8
Refrigeration Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Drain Conn. Size (in.)	3/4 Female NPT	3/4 Female NPT	3/4 Female NPT	3/4 Female NPT
Outdoor Fan — Type	Propeller	Propeller	Propeller	Propeller
Dia. (in.)	28.2	28.2	28.2	28.2
Drive/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1
CFM @ 0.0 in. w.g. ^(f)	4200	4200	4200	4700
Motor — HP/R.P.M	1/6/830	1/6/830	1/6/830	1/4/830
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
F.L. Amps/L.R Amps	0.85/1.95	0.85/1.95	0.85/1.95	1.7/3.8
Indoor Fan — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Dia. x Width (in.)	11.87 x 10.68	11.87 x 10.68	11.87 x 10.68	11.87 x 10.68
Drive/No. Speeds	Direct/Variable	Direct/Variable	Direct/Variable	Direct/Variable
CFM @ 0.0 in. w.g. ^(g)	See Indoor Fan Performance Table			
Motor—HP/R.P.M.	3/4/Variable	3/4/Variable	3/4/Variable	1/Variable
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
F.L. Amps	6.8	6.8	6.8	6.9
Combustion Fan — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Drive/No. Speeds	Direct / 2	Direct / 2	Direct / 2	Direct / 2
Motor — HP/R.P.M.	1/20 / 3350/2600	1/20 / 3350/2600	1/20 / 3350/2600	1/20 / 3350/2600
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
Filter/ Furnished	No	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway	Throwaway
Recmd. Face Area (sq. ft) ^(h)	5.3	5.3	5.3	5.3
Refrigerant	R-454B	R-454B	R-454B	R-454B
Charge (lbs.)	7.4	7.2	7.2	9.8
Subcooling	10° F	10° F	10° F	9° F
Dimensions	H x W x L			

Product Specifications

Table 3. Models – 5YCZ5042A1090A, 5YCZ5048A1090A, 5YCZ5048A1115A, and 5YCZ5060A1115A (continued)

Units	5YCZ5042A1090A	5YCZ5048A1090A	5YCZ5048A1115A	5YCZ5060A1115A
Crated(in.)	52 x 47 x 62	52 x 47 x 62	52 x 47 x 62	52 x 47 x 62
Weight				
Shipping(lbs.) / Net(lbs.)	639 / 511	666 / 538	670 / 542	674 / 546

(a) Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240. Noise calculated in accordance with AHRI Standard 270.

(b) Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

(c) All models are certified to UL 60335. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

(d) Convertible to LPG.

(e) This value is approximate. For more precise value, see Unit Nameplate.

(f) Standard Air - Dry Coil - Outdoor.

(g) Based on U.S. Government Standard Tests.

(h) Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05-in W.C.

Table 4. Models – 5YCZ5036A3070A, 5YCZ5036A3090A, 5YCZ5048A3090A, 5YCZ5048A3115A, and 5YCZ5060A3115A

Units	5YCZ5036A3070A	5YCZ5036A3090A	5YCZ5048A3090A	5YCZ5048A3115A	5YCZ5060A3115A
Rated Volts/PH/Hz	208–230/3/60	208–230/3/60	208–230/3/60	208–230/3/60	208–230/3/60
Performance Cooling BTUH (High) ^(a)	35600	35600	45000	45000	58000
Indoor Airflow (CFM) (High)	1070	1070	1580	1580	1780
Power Input (kW)	3.03	3.03	4.01	4.01	5.12
BTUH (Low)	27800	27800	38000	38000	46000
Indoor Airflow (CFM) (Low)	840	840	1160	1160	1270
Power Input (kW)	1.75	1.75	2.21	2.21	2.86
EER2 / SEER2	11.5/14.3	11.5/14.3	11.5/15.2	11.5/15.2	11.5/15.2
Sound Power Rating [dB(A)] ^(b)	70	70	71	71	73
Performance Heating^(c)					
Input BTUH-1st Stage	56000	72000	72000	92000	92000
Input BTUH-2nd Stage	70000	90000	90000	115000	115000
AFUE	81	81	81	81	81
Temp rise-Min/Max (°F)	30/60	40 / 70	30 / 60	40 / 70	30 / 60
Orifice Qty/Drill Size (Nat Gas) ^(d)	2 / #33	3 / #37	3 / #37	3 / #32	3 / #32
Power Conn. — V/Ph/Hz	208–230/3/60	208–230/3/60	208–230/3/60	208–230/3/60	208–230/3/60
Min. Brch. Cir. Ampacity ^(e)	17	17	23	23	26
Fuse Size — Max/Rec (A)	25/25	25/25	30/30	30/30	35/35
Compressor	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll
Volts/Ph/Hz	208–230/3/60	208–230/3/60	208–230/3/60	208–230/3/60	208–230/3/60
R.L. Amps — L.R. Amps	9.9/82	9.9/82	11.9/112	11.9/112	13.8/150
Outdoor Coil — Type	Spine Fin	Spine Fin	Spine Fin	Spine Fin	Spine Fin
Rows/F.P.I	2/24	2/24	2/24	2/24	2/24
Face Area (sq. ft.)	15.49	15.49	23.57	23.57	23.57
Tube Size (in.)	3/8	3/8	3/8	3/8	3/8
Refrigerant Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Indoor Coil — Type	Plate Fin	Plate Fin	Plate Fin	Plate Fin	Plate Fin
Rows/F.P.I	4/15	4/15	4/15	4/15	4/15
Face Area (sq. ft.)	3.54	3.54	5.0	5.0	5.0
Tube Size (in.)	3/8	3/8	3/8	3/8	3/8
Refrigeration Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve

Product Specifications

Table 4. Models – 5YCZ5036A3070A, 5YCZ5036A3090A, 5YCZ5048A3090A, 5YCZ5048A3115A, and 5YCZ5060A3115A (continued)

Units	5YCZ5036A3070A	5YCZ5036A3090A	5YCZ5048A3090A	5YCZ5048A3115A	5YCZ5060A3115A
Drain Conn. Size (in.)	3/4 Female NPT	3/4 Female NPT	3/4 Female NPT	3/4 Female NPT	3/4 Female NPT
Outdoor Fan — Type	Propeller	Propeller	Propeller	Propeller	Propeller
Dia. (in.)	23.4	23.4	28.2	28.2	28.2
Drive/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1	Direct / 1
CFM @ 0.0 in. w.g. ^(f)	3000	3000	4200	4200	4700
Motor — HP/R.P.M	1/6/830	1/6/830	1/6/830	1/6/830	1/4/830
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
F.L. Amps/L.R Amps	0.85/1.95	0.85/1.95	0.85/1.95	0.85/1.95	1.7/3.8
Indoor Fan — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Dia. x Width (in.)	10.62 X 10.62	10.62 X 10.62	11.87 X 10.68	11.87 X 10.68	11.87 X 10.68
Drive/No. Speeds	Direct/Variable	Direct/Variable	Direct/Variable	Direct/Variable	Direct/Variable
CFM @ 0.0 in. w.g. ^(g)	See Indoor Fan Performance Table				
Motor—HP/R.P.M.	1/2/Variable	1/2/Variable	3/4/Variable	3/4/Variable	1/Variable
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
F.L. Amps	4.3	4.3	6.8	6.8	6.9
Combustion Fan — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Drive/No. Speeds	Direct / 2	Direct / 2	Direct / 2	Direct / 2	Direct / 2
Motor — HP/R.P.M.	1/20 / 3350/2600	1/20 / 3350/2600	1/20 / 3350/2600	1/20 / 3350/2600	1/20 / 3350/2600
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
Filter/ Furnished	No	No	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway
Recmd. Face Area (sq. ft) ^(h)	4.0	4.0	5.3	5.3	5.3
Refrigerant	R-454B	R-454B	R-454B	R-454B	R-454B
Charge (lbs.)	6.7	6.7	7.2	7.2	9.8
Subcooling	9° F	9° F	10° F	10° F	9° F
Dimensions	H x W x L				
Crated(in.)	48 x 45 x 52	48 x 45 x 52	52 x 47 x 62	52 x 47 x 62	52 x 47 x 62
Weight					
Shipping(lbs.) / Net(lbs.)	489 / 393	494 / 398	668 / 540	668 / 540	697 / 569

(a) Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240. Noise calculated in accordance with AHRI Standard 270.

(b) Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

(c) All models are certified to UL 60335. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

(d) Convertible to LPG.

(e) This value is approximate. For more precise value, see Unit Nameplate.

(f) Standard Air - Dry Coil - Outdoor.

(g) Based on U.S. Government Standard Tests.

(h) Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05-in W.C.

Table 5. Models – 5YCZ5036A4070A, 5YCZ5036A4090A, 5YCZ5048A4090A, 5YCZ5048A4115A, and 5YCZ5060A4115A

Units	5YCZ5036A4070A	5YCZ5036A4090A	5YCZ5048A4090A	5YCZ5048A4115A	5YCZ5060A4115A
Rated Volts/Ph/Hz	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60
Performance Cooling BTUH (High) ^(a)	35600	35600	45000	45000	58000
Indoor Airflow (CFM) (High)	1070	1070	1580	1580	1780
Power Input (kW)	3.03	3.03	4.01	4.01	5.12

Product Specifications

Table 5. Models – 5YCZ5036A4070A, 5YCZ5036A4090A, 5YCZ5048A4090A, 5YCZ5048A4115A, and 5YCZ5060A4115A (continued)

Units	5YCZ5036A4070A	5YCZ5036A4090A	5YCZ5048A4090A	5YCZ5048A4115A	5YCZ5060A4115A
BTUH (Low)	27800	27800	38000	38000	46000
Indoor Airflow (CFM) (Low)	840	840	1160	1160	1270
Power Input (kW)	1.75	1.75	2.21	2.21	2.86
EER2 / SEER2	11.5/15.2	11.5/15.2	11.5/15.2	11.5/15.2	11.5/15.2
Sound Power Rating [dB(A)] ^(b)	71	71	73	73	75
Performance Heating^(c)					
Input BTUH-1st Stage	56000	72000	72000	92000	92000
Input BTUH-2nd Stage	70000	90000	90000	115000	115000
AFUE	81	81	81	81	81
Temp rise-Min/Max (°F)	30/60	40 / 70	30 / 60	40 / 70	30 / 60
Orifice Qty/Drill Size (Nat Gas) ^(d)	2 /#33	3 /#37	3 /#37	3 /#32	3 /#32
Power Conn. — V/Ph/Hz	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60
Min. Brch. Cir. Ampacity ^(e)	12	12	14	14	17
Fuse Size — Max/Rec (A)	15/15	15/15	20/20	20/20	20/20
Compressor	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll	2 Stage Scroll
Volts/Ph/Hz	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60
R.L. Amps — L.R. Amps	4.8/44.3	4.8/44.3	6.8/61.8	6.8/61.8	6.9/58.0
Outdoor Coil — Type	Spine Fin	Spine Fin	Spine Fin	Spine Fin	Spine Fin
Rows/F.P.I	2/24	2/24	2/24	2/24	2/24
Face Area (sq. ft.)	15.49	15.49	23.57	23.57	23.57
Tube Size (in.)	3/8	3/8	3/8	3/8	3/8
Refrigerant Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Indoor Coil — Type	Plate Fin	Plate Fin	Plate Fin	Plate Fin	Plate Fin
Rows/F.P.I	4/15	4/15	4/15	4/15	4/15
Face Area (sq. ft.)	3.54	3.54	5.0	5.0	5.0
Tube Size (in.)	3/8	3/8	3/8	3/8	3/8
Refrigeration Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Drain Conn. Size (in.)	3/4 Female NPT	3/4 Female NPT	3/4 Female NPT	3/4 Female NPT	3/4 Female NPT
Outdoor Fan — Type	Propeller	Propeller	Propeller	Propeller	Propeller
Dia. (in.)	23.4	23.4	28.2	28.2	28.2
Drive/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1	Direct / 1
CFM @ 0.0 in. w.g. ^(f)	3000	3000	4200	4200	4700
Motor — HP/R.P.M	1/6/830	1/6/830	1/6/830	1/6/830	1/4/830
Volts/Ph/Hz	460/1/60	460/1/60	460/1/60	460/1/60	460/1/60
F.L. Amps/L.R Amps	0.46/1.95	0.46/1.95	0.46/1.95	0.46/1.95	0.97/3.8
Indoor Fan — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Dia. x Width (in.)	10.62 x 10.62	10.62 x 10.62	11.87 x 10.68	11.87 x 10.68	11.87 x 10.68
Drive/No. Speeds	Direct/Variable	Direct/Variable	Direct/Variable	Direct/Variable	Direct/Variable
CFM @ 0.0 in. w.g. ^(g)	See Indoor Fan Performance Table				
Motor—HP/R.P.M.	1/2/Variable	1/2/Variable	3/4/Variable	3/4/Variable	1/Variable
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
F.L. Amps	4.3	4.3	4.3	4.3	6.9

Table 5. Models – 5YCZ5036A4070A, 5YCZ5036A4090A, 5YCZ5048A4090A, 5YCZ5048A4115A, and 5YCZ5060A4115A (continued)

Units	5YCZ5036A4070A	5YCZ5036A4090A	5YCZ5048A4090A	5YCZ5048A4115A	5YCZ5060A4115A
Combustion Fan — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Drive/No. Speeds	Direct / 2	Direct / 2	Direct / 2	Direct / 2	Direct / 2
Motor — HP/R.P.M.	1/20 / 3350/2600	1/20 / 3350/2600	1/20 / 3350/2600	1/20 / 3350/2600	1/20 / 3350/2600
Volts/Ph/Hz	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60	208–230/1/60
Filter/ Furnished	No	No	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway
Recmd. Face Area (sq. ft) ^(h)	4.0	4.0	5.3	5.3	5.3
Refrigerant	R-454B	R-454B	R-454B	R-454B	R-454B
Charge (lbs.)	6.7	6.7	7.2	7.2	9.8
Subcooling	9° F	9° F	10° F	10° F	9° F
Dimensions	H x W x L				
Crated(in.)	48 x 45 x 52	48 x 45 x 52	52 x 47 x 62	52 x 47 x 62	52 x 47 x 62
Weight					
Shipping(lbs.) / Net(lbs.)	501 / 405	506 / 410	682 / 554	688 / 560	696 / 568

^(a) Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240. Noise calculated in accordance with AHRI Standard 270.

^(b) Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

^(c) All models are certified to UL 60335. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

^(d) Convertible to LPG.

^(e) This value is approximate. For more precise value, see Unit Nameplate.

^(f) Standard Air - Dry Coil - Outdoor.

^(g) Based on U.S. Government Standard Tests.

^(h) Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05-in W.C.

Indoor Fan Performance

Table 6. Airflow - model 5YCZ5024A

		External Static Pressure (in.WG) [Cooling CFM Horizontal (Downflow)]										
Motor Speed		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350CFM/ Ton Setting	Low	—	489 [498]	485 [489]	480 [477]	474 [467]	468 [465]	435 [439]	403 [403]	384 [392]	365 [376]	356 [367]
	High	—	663 [675]	666 [673]	670 [665]	661 [652]	653 [649]	635 [639]	617 [617]	596 [608]	574 [592]	556 [574]
400CFM/ Ton Setting	Low	—	565 [575]	569 [567]	573 [571]	560 [562]	547 [552]	533 [540]	519 [528]	493 [507]	467 [480]	451 [463]
	High	—	770 [783]	779 [776]	789 [786]	777 [780]	765 [771]	760 [769]	754 [768]	735 [756]	717 [735]	668 [686]
450CFM/ Ton Setting	Low	—	654 [658]	660 [664]	666 [672]	652 [656]	638 [640]	627 [626]	616 [617]	589 [610]	563 [594]	547 [577]
	High	—	874 [879]	880 [885]	887 [893]	880 [886]	873 [876]	860 [858]	846 [848]	814 [842]	782 [825]	721 [761]

Table 7. Airflow - model 5YCZ5030A

		External Static Pressure (in.WG) [Cooling CFM Horizontal (Downflow)]										
Motor Speed		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350CFM/ Ton Setting	Low	—	729 [729]	735 [732]	732 [735]	715 [715]	701 [706]	688 [690]	672 [674]	655 [660]	640 [644]	623 [628]
	High	—	920 [923]	927 [933]	934 [938]	932 [939]	929 [935]	918 [910]	898 [893]	886 [885]	878 [870]	854 [799]
400CFM/ Ton Setting	Low	—	780 [782]	788 [788]	787 [793]	790 [789]	768 [761]	755 [755]	741 [739]	726 [720]	707 [712]	688 [694]
	High	—	1021 [1022]	1030 [1033]	1035 [1037]	1036 [1040]	1034 [1038]	1032 [1035]	1024 [1012]	1007 [987]	984 [964]	900 [838]
450CFM/ Ton Setting	Low	—	837 [841]	847 [839]	855 [833]	854 [834]	845 [823]	834 [811]	821 [798]	805 [788]	795 [778]	781 [764]
	High	—	1103 [1116]	1113 [1123]	1118 [1128]	1120 [1130]	1122 [1132]	1122 [1132]	1118 [1126]	1108 [1113]	1074 [1064]	949 [950]

Table 8. Airflow - model 5YCZ5036A

		External Static Pressure (in.WG) [Cooling CFM Horizontal (Downflow)]										
Motor Speed		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350CFM/ Ton Setting	Low	—	841 [842]	846 [846]	848 [846]	842 [839]	833 [831]	821 [819]	804 [802]	788 [784]	779 [773]	767 [761]
	High	—	1100 [1097]	1109 [1101]	1111 [1103]	1110 [1101]	1106 [1096]	1098 [1088]	1091 [1080]	1080 [1070]	1032 [1018]	935 [931]
400CFM/ Ton Setting	Low	—	923 [922]	929 [929]	935 [931]	929 [926]	922 [919]	915 [911]	903 [900]	888 [883]	868 [861]	848 [838]
	High	—	1243 [1228]	1247 [1237]	1248 [1238]	1249 [1238]	1247 [1236]	1242 [1230]	1233 [1220]	1195 [1167]	1095 [1085]	1003 [988]
450CFM/ Ton Setting	Low	—	990 [988]	1002 [994]	1009 [1004]	1013 [1005]	1012 [1003]	1009 [997]	1000 [983]	989 [969]	974 [943]	866 [863]
	High	—	1369 [1381]	1370 [1381]	1372 [1383]	1374 [1381]	1375 [1382]	1375 [1369]	1370 [1373]	1300 [1298]	1199 [1194]	1091 [1085]

Table 9. Airflow - model 5YCZ5042A

		External Static Pressure (in.WG) [Cooling CFM Horizontal (Downflow)]										
Motor Speed		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350CFM/ Ton Setting	Low	—	910 [913]	901 [903]	893 [894]	885 [882]	873 [870]	859 [853]	835 [829]	812 [806]	791 [781]	771 [759]
	High	—	1206 [1223]	1210 [1224]	1206 [1221]	1209 [1223]	1203 [1217]	1200 [1223]	1195 [1213]	1188 [1200]	1180 [1187]	1170 [1169]
400CFM/ Ton Setting	Low	—	1012 [1021]	1008 [1015]	1003 [1010]	996 [1003]	994 [999]	984 [986]	969 [970]	950 [951]	927 [933]	905 [909]
	High	—	1359 [1380]	1364 [1383]	1363 [1389]	1365 [1385]	1362 [1380]	1357 [1375]	1350 [1366]	1347 [1357]	1343 [1347]	1336 [1339]
450CFM/ Ton Setting	Low	—	1136 [1157]	1136 [1135]	1132 [1130]	1126 [1126]	1125 [1121]	1120 [1113]	1113 [1103]	1101 [1091]	1088 [1075]	1072 [1058]
	High	—	1526 [1546]	1531 [1557]	1544 [1558]	1542 [1555]	1539 [1550]	1534 [1546]	1530 [1542]	1525 [1535]	1522 [1530]	1518 [1524]

Table 10. Airflow - model 5YCZ5048A

		External Static Pressure (in.WG) [Cooling CFM Horizontal (Downflow)]										
Motor Speed		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350CFM/ Ton Setting	Low	—	954 [948]	973 [977]	977 [977]	973 [970]	966 [969]	957 [975]	950 [979]	944 [962]	—	—
	High	—	1363 [1354]	1390 [1396]	1396 [1396]	1390 [1386]	1379 [1384]	1368 [1393]	1358 [1399]	1349 [1375]	—	—
400CFM/ Ton Setting	Low	—	1121 [1102]	1106 [1106]	1104 [1109]	1106 [1113]	1108 [1116]	1108 [1119]	1104 [1120]	1097 [1118]	—	—
	High	—	1601 [1574]	1580 [1580]	1577 [1585]	1580 [1589]	1583 [1594]	1583 [1599]	1577 [1601]	1567 [1597]	—	—
450CFM/ Ton Setting	Low	—	1223 [1295]	1254 [1277]	1268 [1272]	1271 [1273]	1268 [1274]	1264 [1273]	1261 [1272]	1258 [1273]	—	—
	High	—	1747 [1851]	1792 [1824]	1811 [1817]	1816 [1818]	1812 [1820]	1806 [1819]	1801 [1817]	1797 [1819]	—	—

Table 11. Airflow - model 5YCZ5060A

		External Static Pressure (in.WG) [Cooling CFM Horizontal (Downflow)]										
350CFM/ Ton Setting	Low	—	1163 [1259]	1238 [1219]	1259 [1208]	1256 [1207]	1246 [1206]	1240 [1199]	1237 [1188]	1230 [1185]	—	—
	High	—	1662 [1799]	1768 [1742]	1799 [1726]	1794 [1725]	1780 [1723]	1771 [1712]	1767 [1698]	1757 [1692]	—	—
400CFM/ Ton Setting	Low	—	1443 [1410]	1427 [1393]	1422 [1386]	1422 [1384]	1423 [1383]	1422 [1380]	1418 [1368]	1410 [1344]	—	—
	High	—	2062 [2015]	2038 [1990]	2031 [1980]	2032 [1977]	2034 [1976]	2032 [1971]	2025 [1955]	2015 [1920]	—	—

Indoor Fan Performance

Table 12. Heating air volume (CFM) - models 5YCZ5024*060, 5YCZ5030*070, 5YCZ5036*070, and 5YCZ5036*090

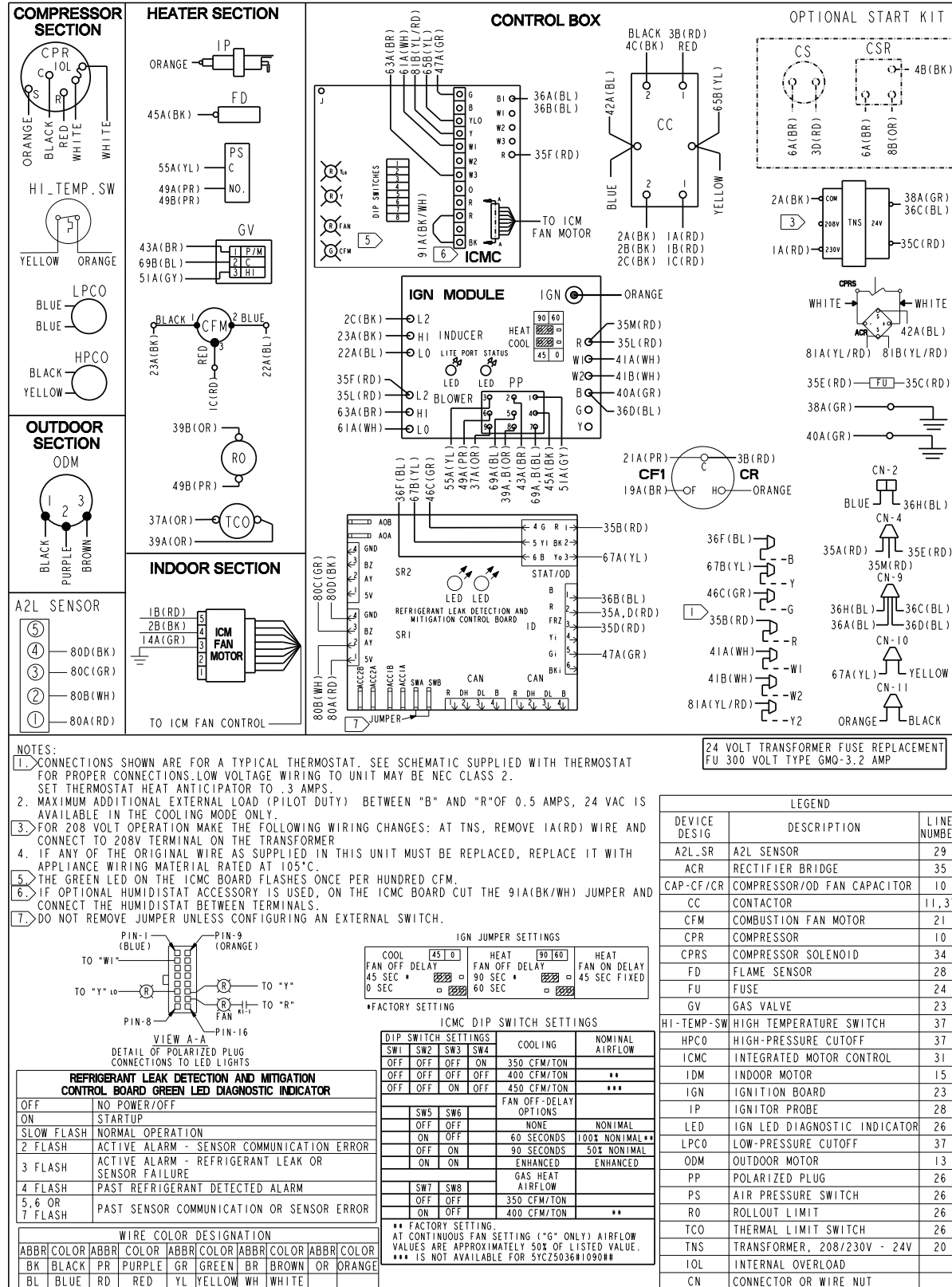
Switch Settings		Selection	5YCZ5024*060		5YCZ5030*070		5YCZ5036*070		5YCZ5036*090	
			Nominal Airflow							
			Low Stage	High Stage	Low Stage	High Stage	Low Stage	High Stage	Low Stage	High Stage
7 – OFF	8 – OFF	A	600	850	860	1130	860	1130	860	1170
7 – ON	8 – OFF	B	625	900	915	1200	910	1200	910	1200
7 – OFF	8 – ON	C	650	925	960	1325	960	1320	960	1300
7 – ON	8 – ON	D	700	975	1030	1415	1030	1420	1030	1420

Table 13. Heating air volume (CFM) - models 5YCZ5042*090, 5YCZ5048*090, 5YCZ5048*115, 5YCZ5060 *090, and 5YCZ5060*115

Switch Settings		Selection	5YCZ5042*090		5YCZ5048*090		5YCZ5048*115		5YCZ5060 *090		5YCZ5060*115	
			Nominal Airflow									
			Low Stage	High Stage	Low Stage	High Stage	Low Stage	High Stage	Low Stage	High Stage	Low Stage	High Stage
7 – OFF	8 – OFF	A	1150	1500	1075	1375	1050	1500	1375	1800	1375	1800
7 – ON	8 – OFF	B	1200	1550	1100	1450	1100	1575	1450	1900	1450	1900
7 – OFF	8 – ON	C	1250	1600	1150	1500	1150	1625	—	—	—	—
7 – ON	8 – ON	D	1300	1680	1200	1575	1200	1700	—	—	—	—

Wiring Diagram

Figure 1. 5YCZ5024A1 – 48A1



Wiring Diagram

Figure 2. 5YCZ5024A1 – 48A1

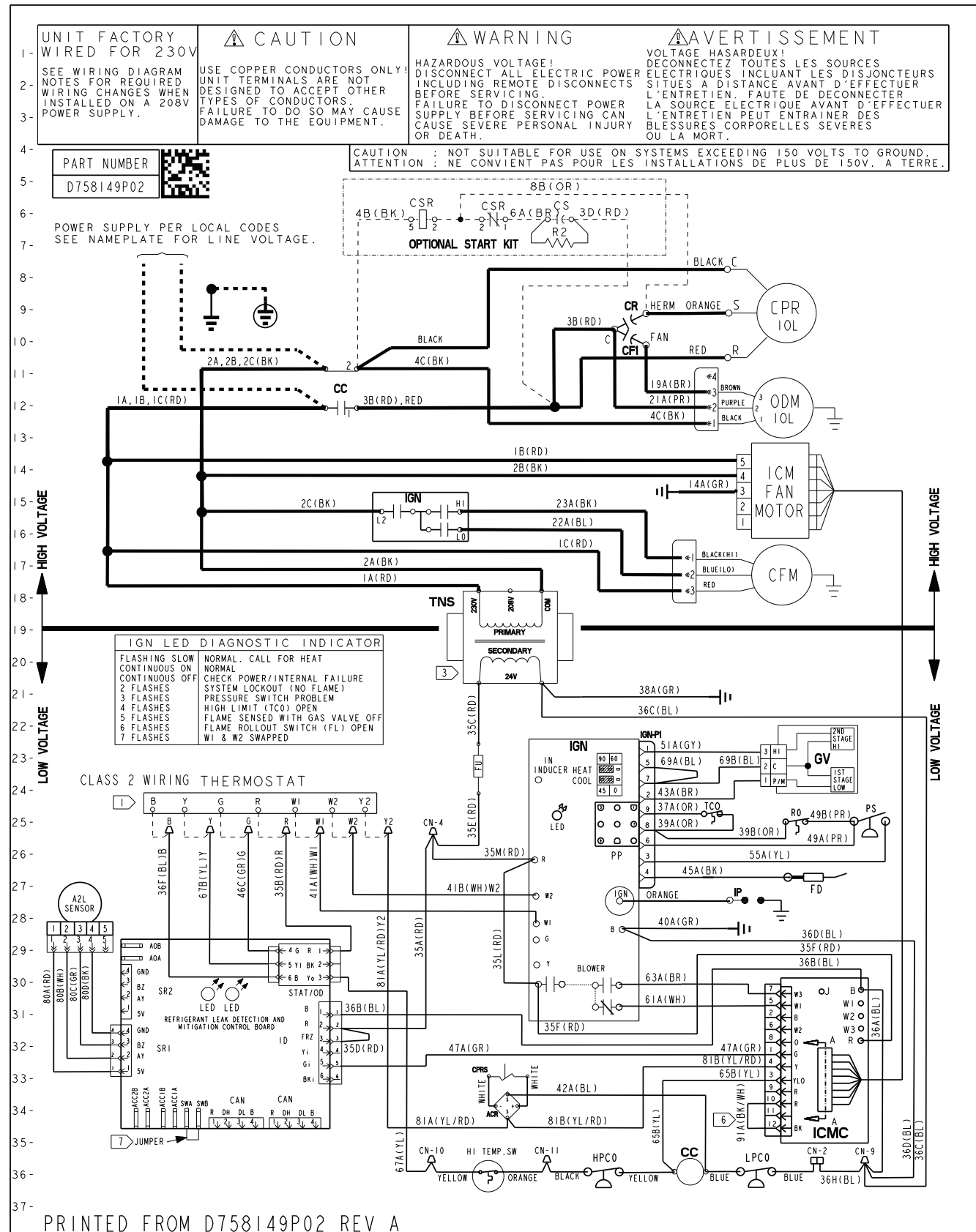


Figure 3. 5YCZ5060A1

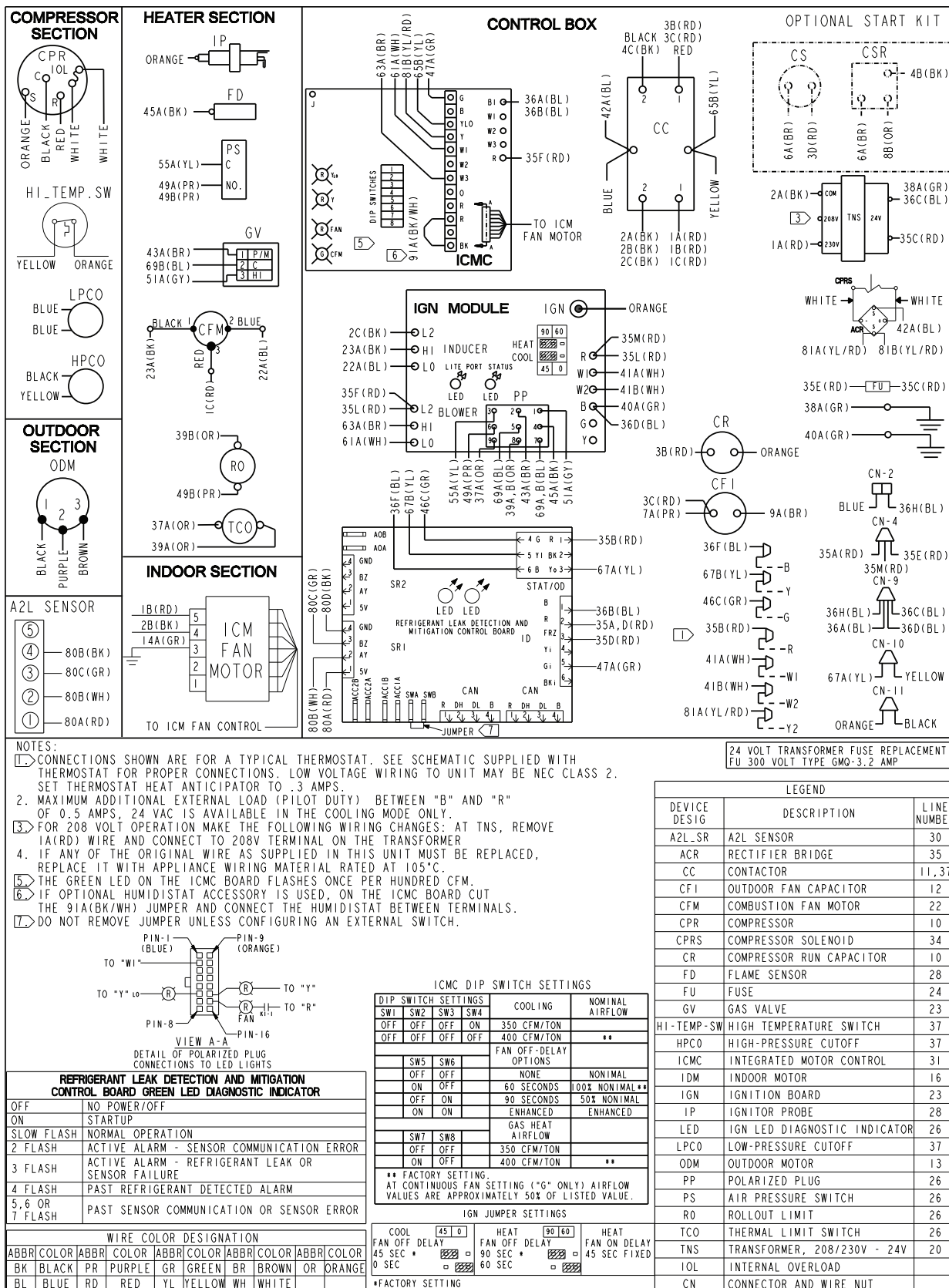
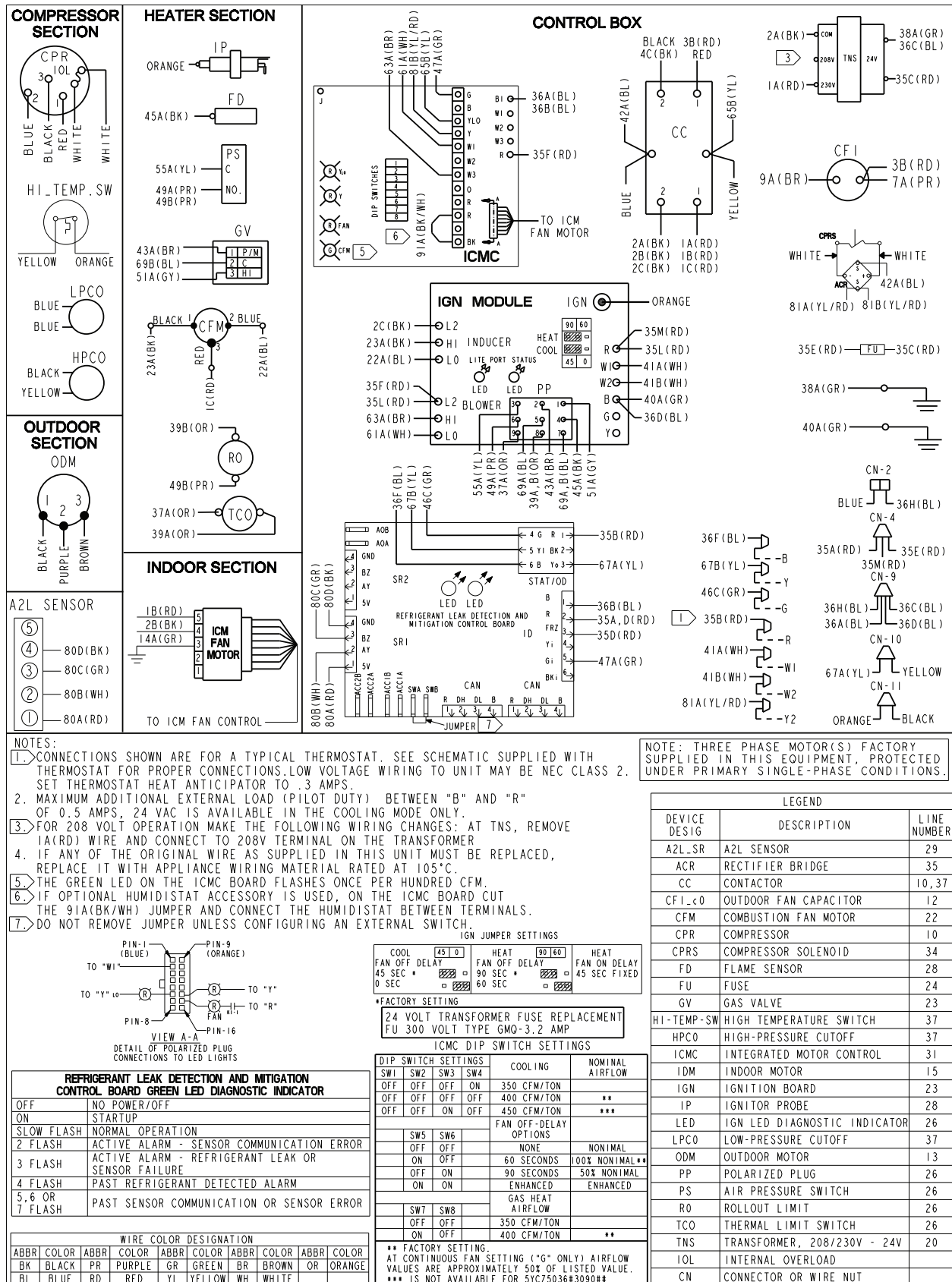


Figure 4. 5YCZ5060A1



Figure 5. 5YCZ5036A3 – 60A3



Wiring Diagram

Figure 6. 5YCZ5036A3 – 60A3

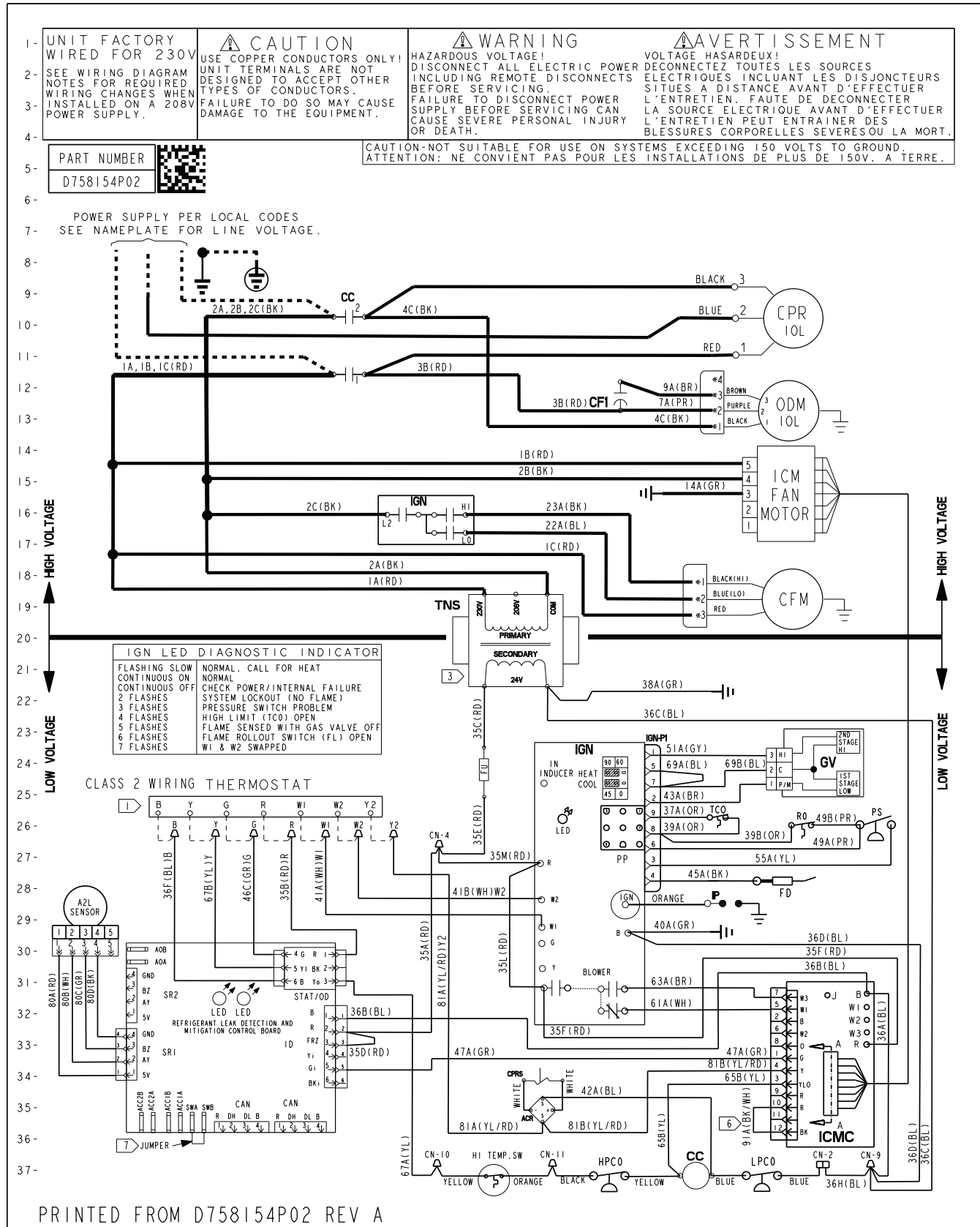
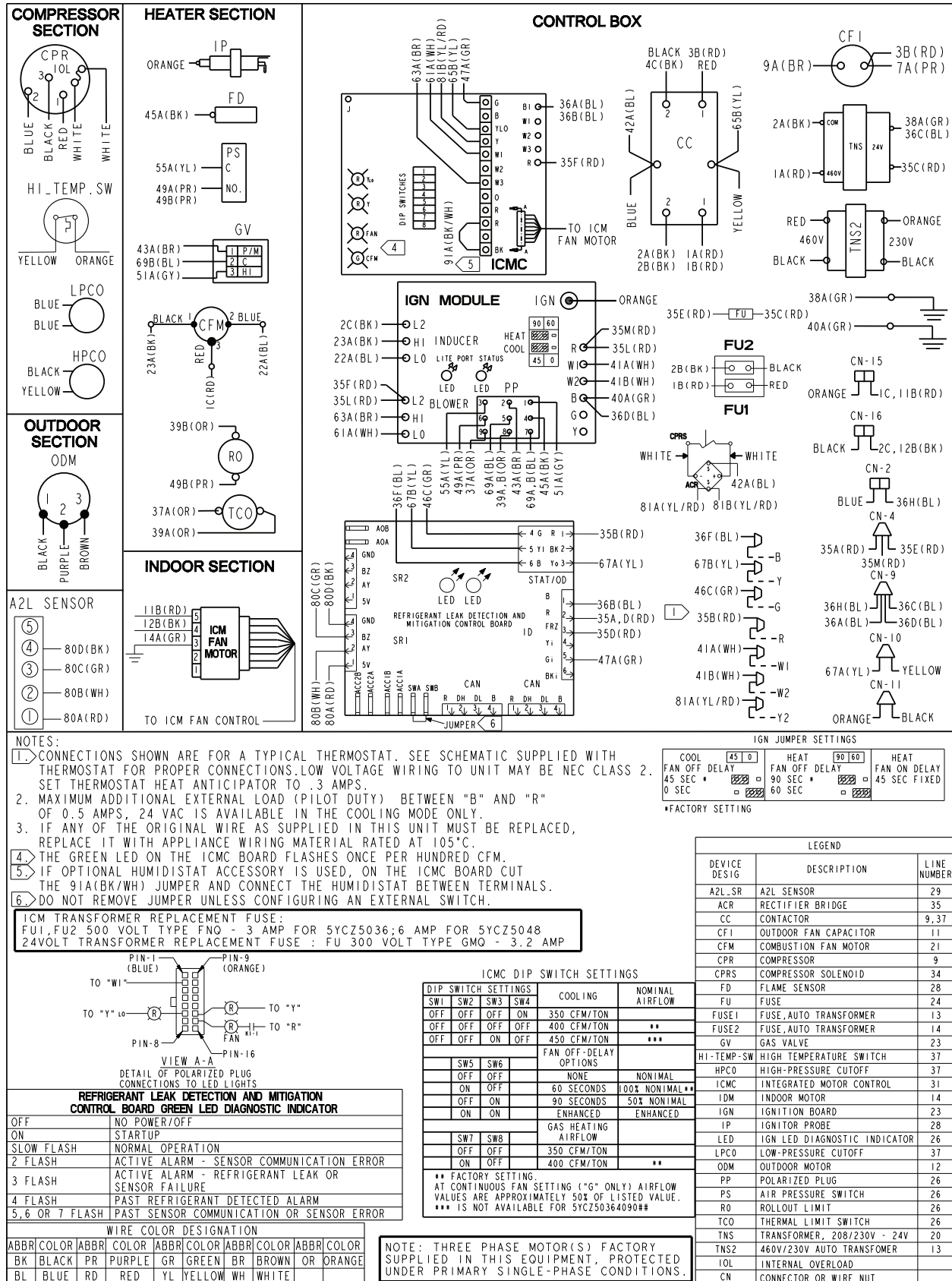


Figure 7. 5YCZ5036A4 – 48A4



Wiring Diagram

Figure 8. 5YCZ5036A4 - 48A4

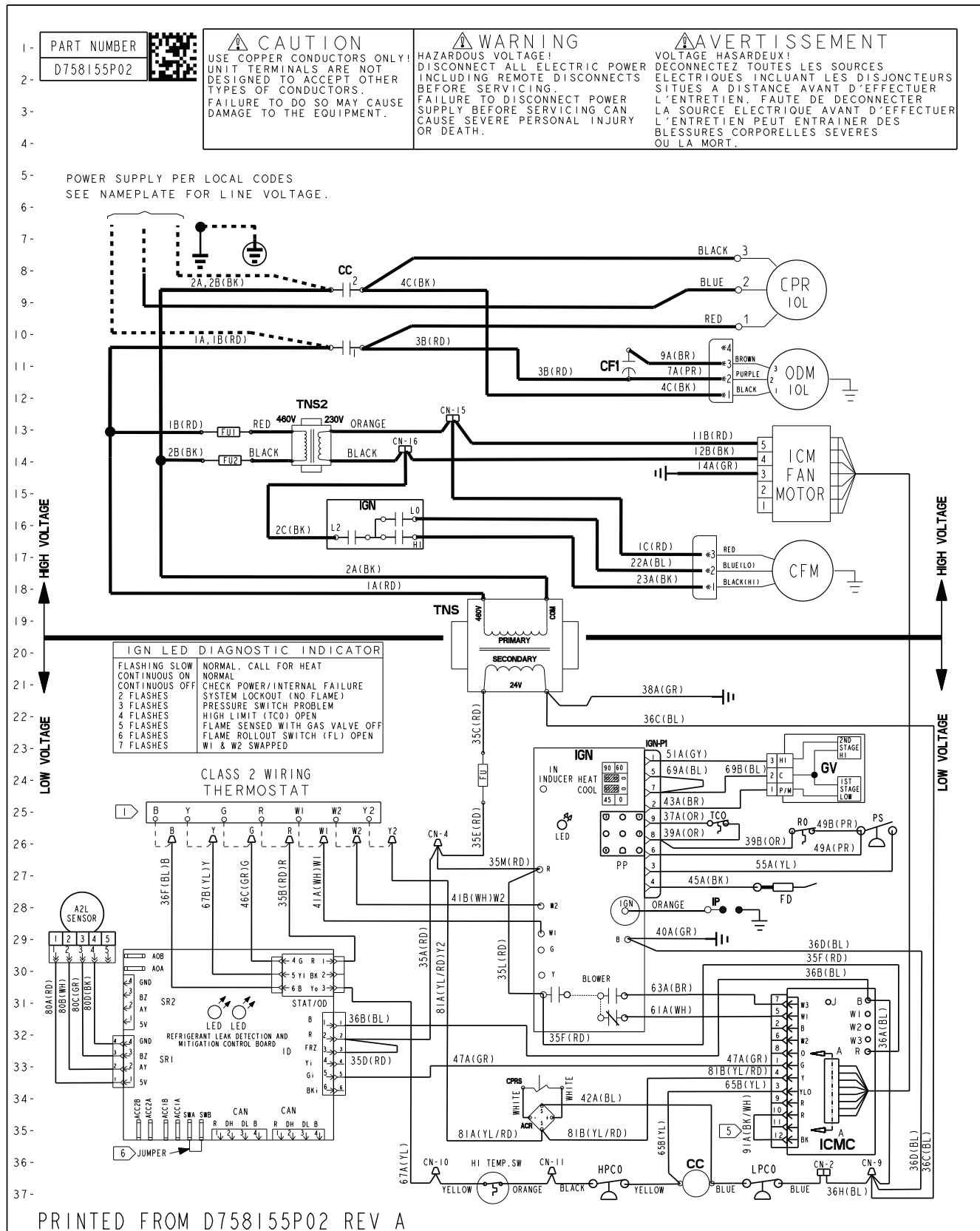
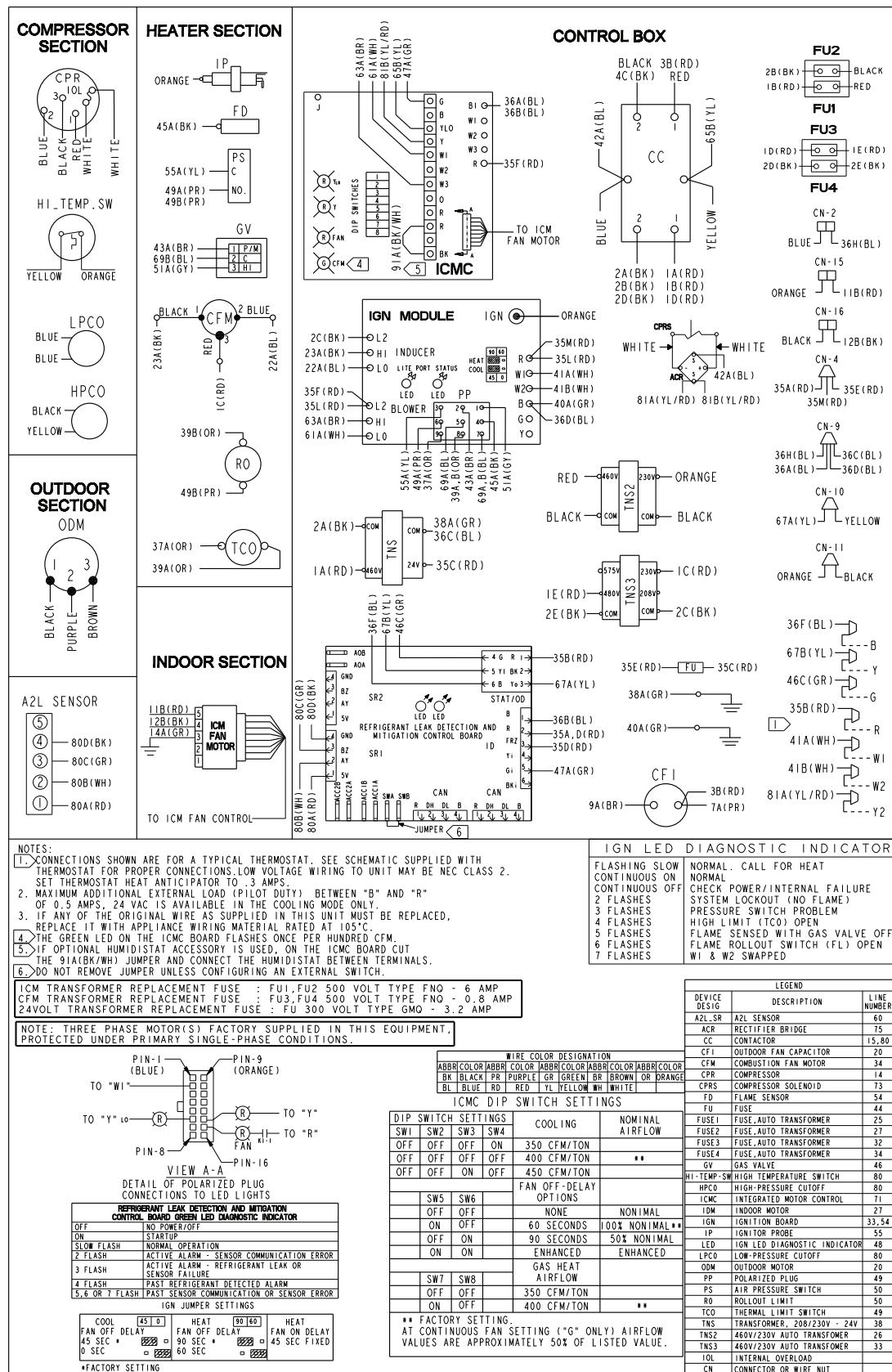
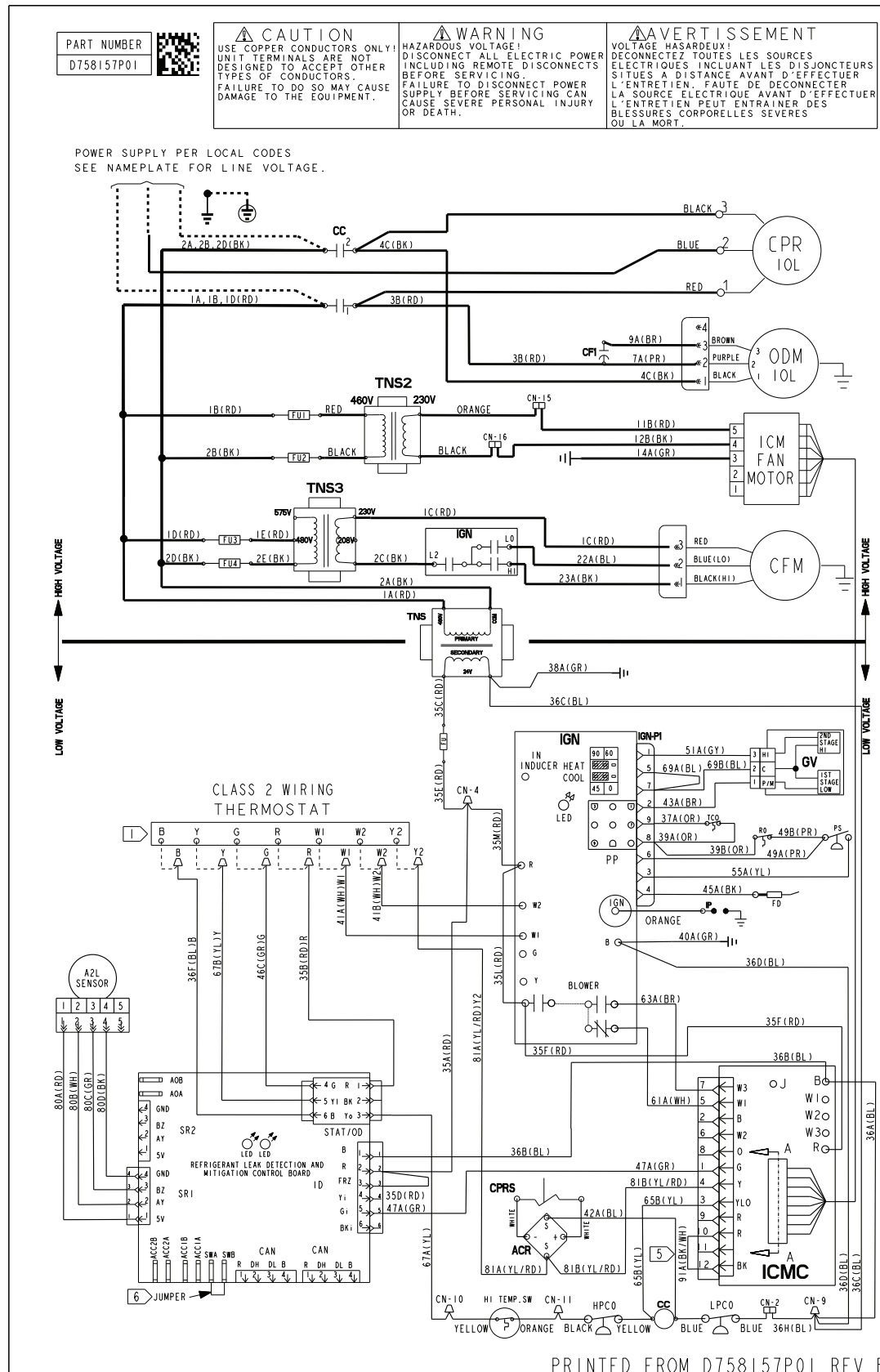


Figure 9. 5YCZ5060A4



Wiring Diagram

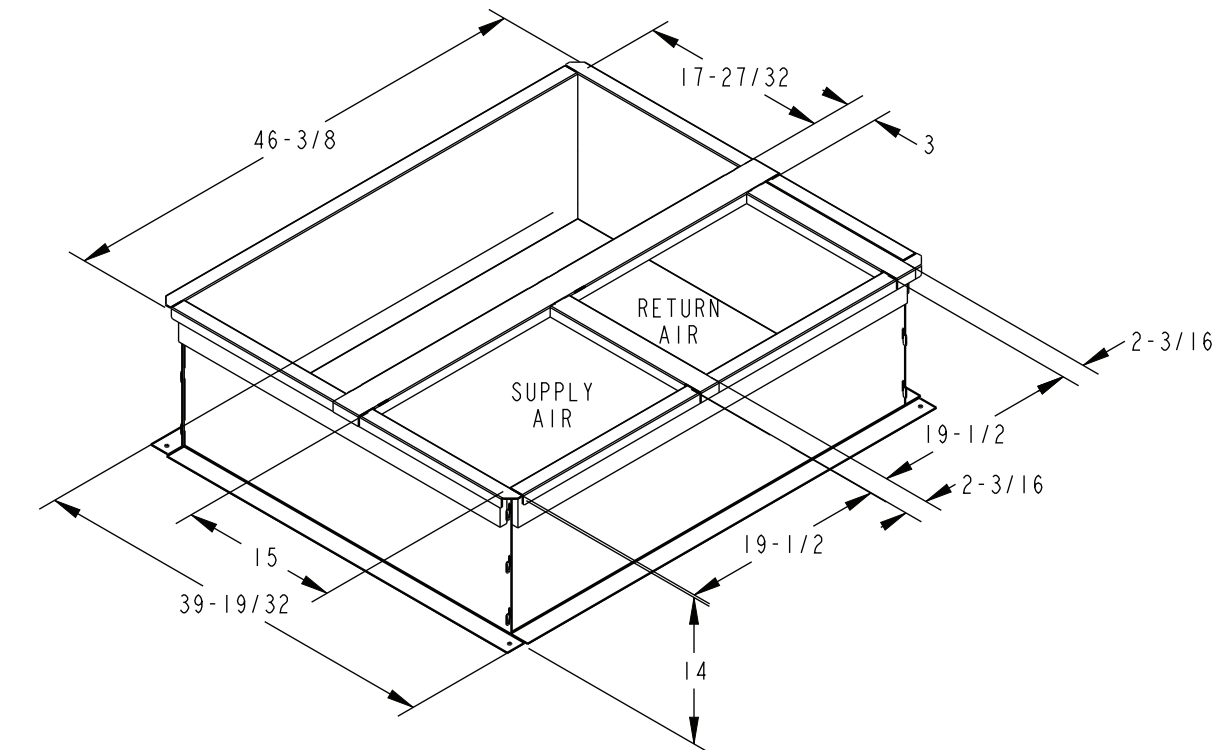
Figure 10. 5YCZ5060A4



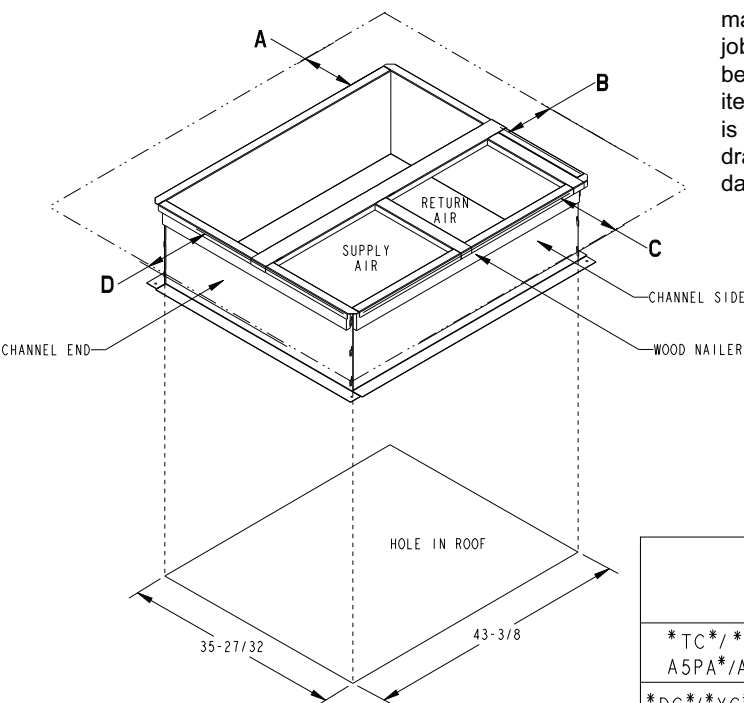
Full Perimeter Roof Mounting Curb

Figure 11. 2.0 to 3.0 ton models

BAYCURB050B Full Perimeter Roof Mounting Curb



The drawings on this page are prepared by the manufacturer in order to provide detail regarding job layout only. These drawings are not intended to be used as a basis to construct, build or modify the items depicted in the drawings. The manufacturer is not responsible for the unauthorized use of these drawings and expressly disclaims any liability for damages resulting from such unauthorized use.



All dimensions are in inches

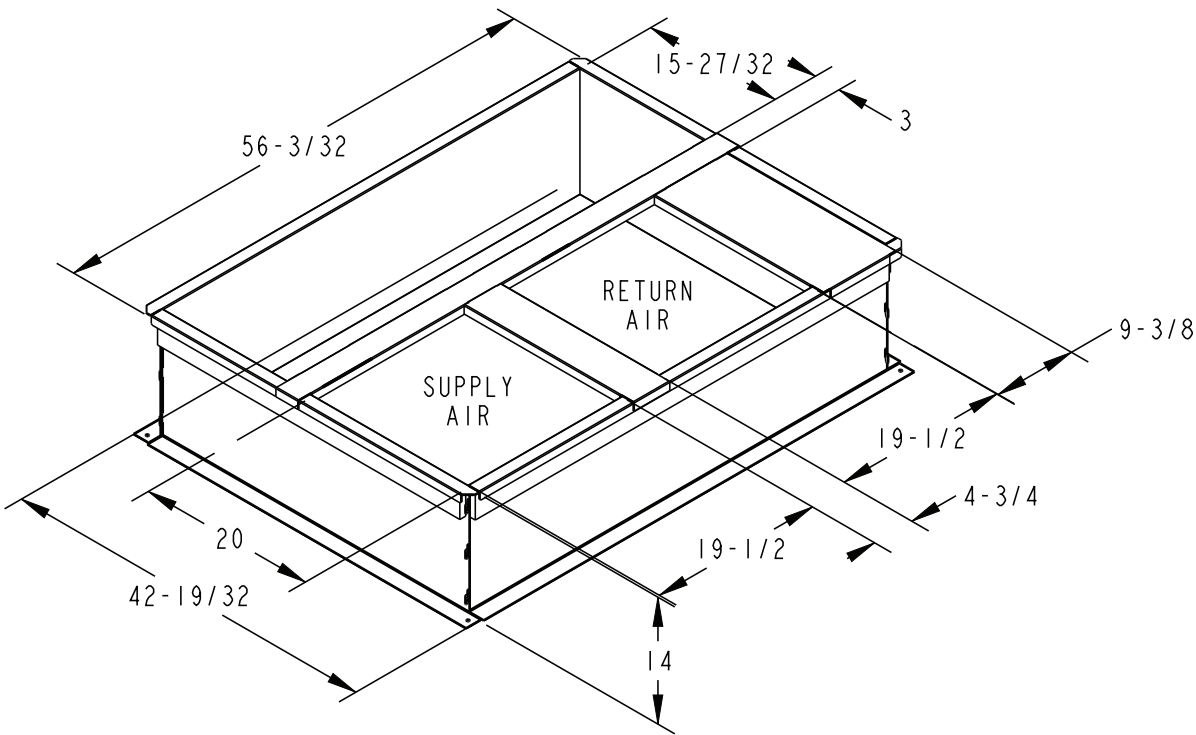
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	A	B	C	D
TC/*WC*/ A5PA*/A5PH*	42.00	36.00	12.00**	24.00
DC/*YC*/A5PG*	42.00	36.00	12.00**	36.00

** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

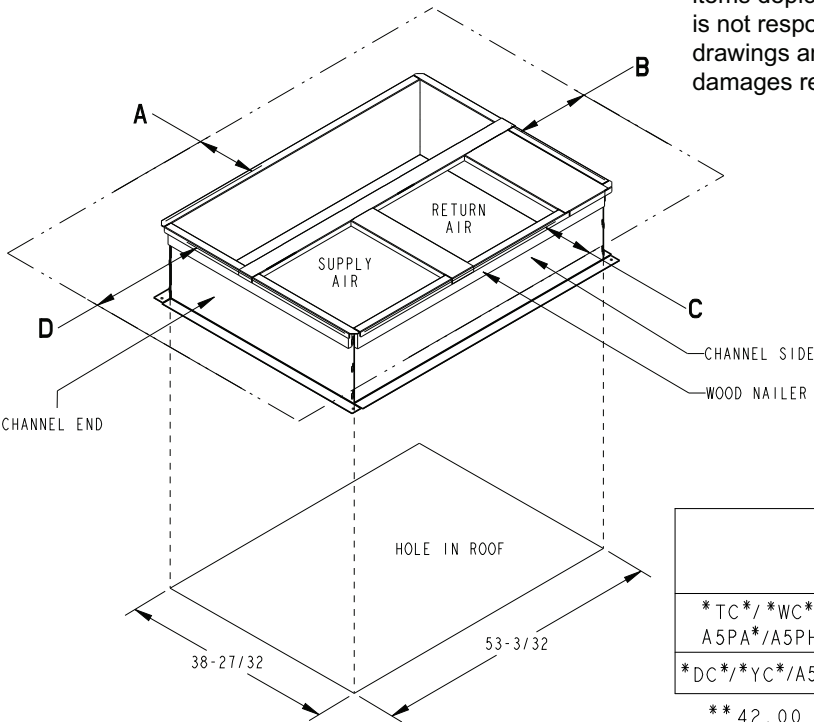
Full Perimeter Roof Mounting Curb

Figure 12. 3.5 to 5.0 ton models

BAYCURB051B Full Perimeter Roof Mounting Curb



The drawings on this page are prepared by the manufacturer in order to provide detail regarding job layout only. These drawings are not intended to be used as a basis to construct, build or modify the items depicted in the drawings. The manufacturer is not responsible for the unauthorized use of these drawings and expressly disclaims any liability for damages resulting from such unauthorized use.



All dimensions are in inches

	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
TC/ *WC*/ A5PA*/A5PH*	42.00	36.00	12.00**	24.00
DC/ *YC*/A5PG*	42.00	36.00	12.00**	36.00

** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

Optional Equipment — Filter Rack

Figure 13. BAYFLTR101 filter rack (2.0 to 3.0 ton models)/ BAYFLTR201 (3.5 to 5.0 ton models) (Mounts in filter/coil section)

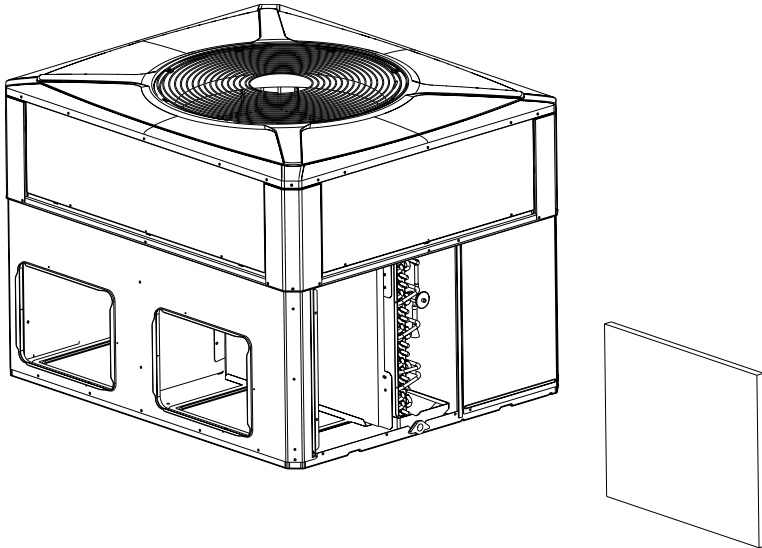
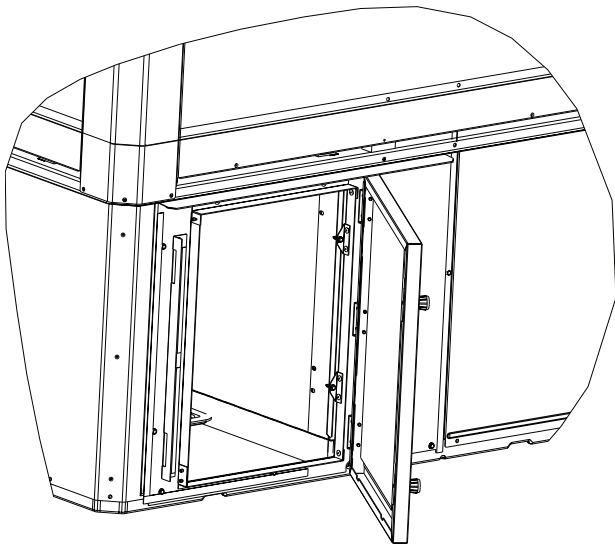


Figure 14. BAYACCDOR1A hinged filter access door (2.0 to 3.0 ton models)/ BAYACCDOR2A (3.5 to 5.0 ton models) (Replaces filter/coil access panel)



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Optional Equipment — Economizer

Figure 15. BAYECON107, BAYECON108A down discharge economizer and rain hood (Mounts over horizontal return air opening)

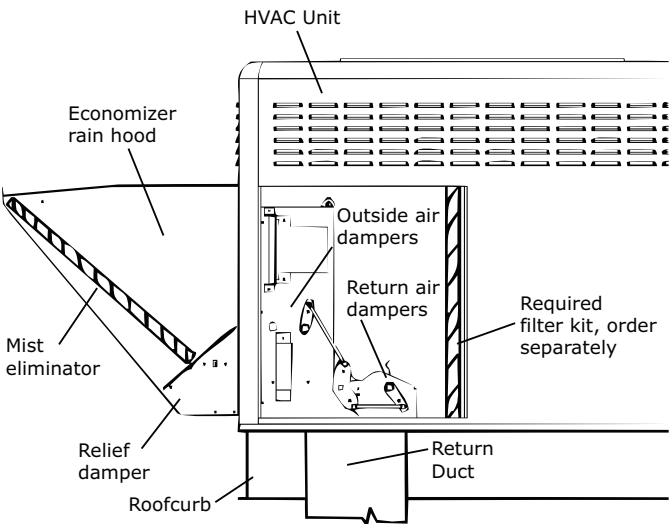


Table 14. Economizer application models

Economizer	Unit Application Models
BAYECON107A	2.0 to 3.0 Ton Models
BAYECON108A	3.5 to 5.0 Ton Models

Figure 16. BAYCON207, BAYECON208A horizontal economizer and rain hood

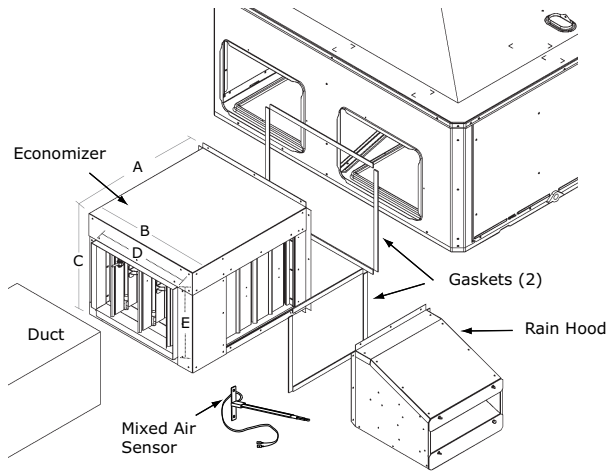


Table 15. Economizer dimension (in inches)

Economizer	Models	A	B	C	D	E	F
BAYECON207A	2.0 to 3.0 Ton	22	20	16-7/8	15-11/16	11-11/16	15
BAYECON208A	3.5 to 5.0 Ton	26	22-21/32	19	17-11/16	14-11/16	21-3/8

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Optional Equipment — Outside Air Damper

Figure 17. BAYOSAH001 and BAYOSAH002A outside air damper (Replaces filter/coil access panel)

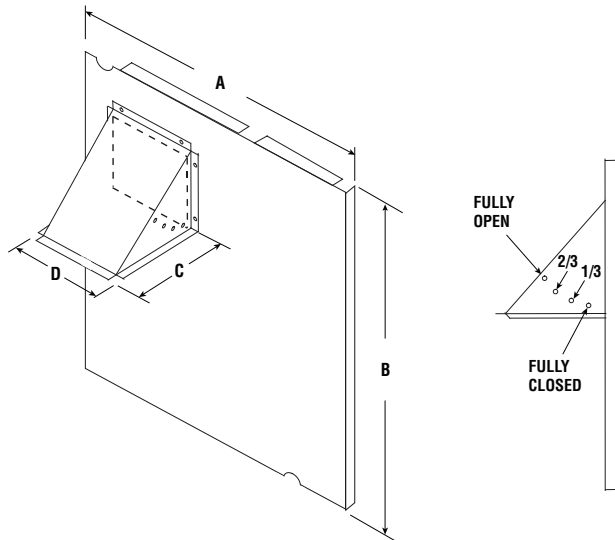


Table 16. Outside air damper dimensions (in inches)

Manual Fresh Air Model	Unit Application Models	A	B	C	D
BAYOSAH001A	2.0 to 3.0 Ton	22–7/16	20–11/16	12–3/8	9–3/16
BAYOSAH002A	3.5 to 5.0 Ton	25–3/16	20–11/16	12–3/8	9–3/16

Figure 18. BAYDMPR101 and BAYDMPR102A, 25% motorized outside air damper (Mounts over horizontal return air opening)

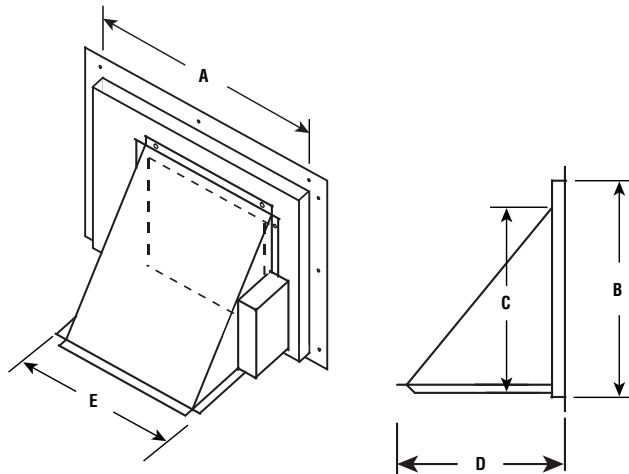


Table 17. Outside air damper dimensions (in inches)

Manual Fresh Air Model	Unit Application Models	A	B	C	D	E
BAYDMPR101A	2.0 to 3.0 Ton	15–13/16	11–13/16	10–1/4	11–1/2	12–1/4
BAYDMPR102A	3.5 to 5.0 Ton	18–3/16	15–1/8	10–1/4	11–1/2	12–1/4

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Dimensional Data

Figure 19. Space on sides requirements

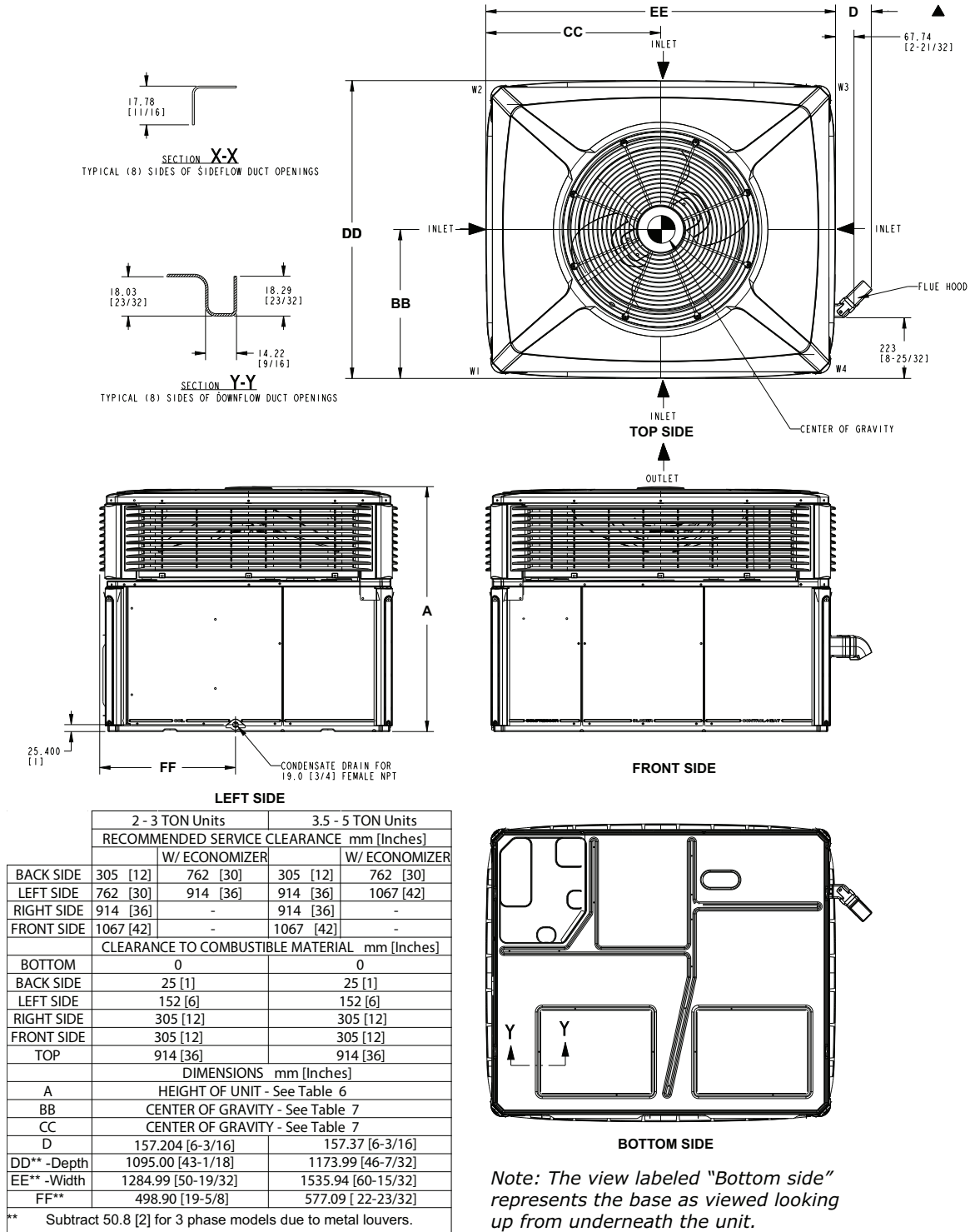


Figure 20. Bottom and back duct openings

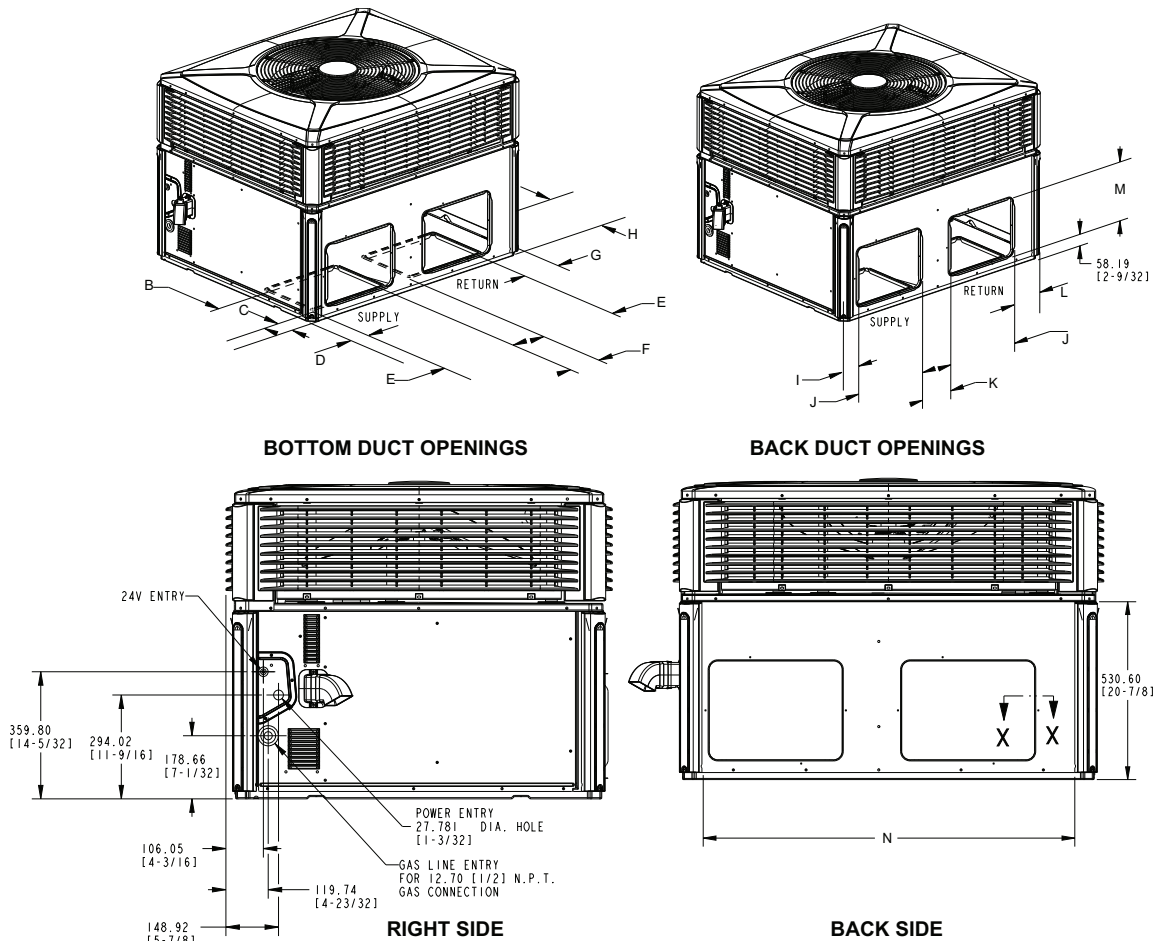


Table 18. Dimensions (mm [inch])

Model	Height A	B	C	D	E	F	G	H	I	J	K	L	M	N
5YCZ5024	898.53 [35 - 3/8]	304.80 [12.0]	75.41 [2.93]	75.41 [2.93]	406.40 [16.0]	167.89 [6.61]	173.46 [6.84]	380.21 [14.96]	79.50 [3.13]	398.22 [15.68]	176.07 [6.93]	177.55 [7.00]	296.62 [11.68]	1155.46 [45.50]
5YCZ5030	949.33 [37 - 3/8]													
5YCZ5036	949.33 [37 - 3/8]													
5YCZ5042	1050.93 [41 - 3/8]	457.20 [18.0]	75.41 [2.96]	75.41 [2.96]	381.00 [15.0]	244.09 [9.61]	318.75 [12.56]	381.00 [15.0]	79.50 [3.12]	449.02 [17.68]	176.07 [6.93]	322.84 [12.71]	372.82 [14.68]	1402.34 [55.21]
5YCZ5048	1050.93 [41 - 3/8]													
5YCZ5060	1050.93 [41 - 3/8]													

Table 19. Weights and center of gravity

Model	Corner Weights KG[LBS]				Shipping Weight KG [LBS]	Unit Weight KG[LBS]	Center of Gravity mm[in.]	
	W1	W2	W3	W4			BB	CC
5YCZ5024*1	62.1 [133]	38.1 [84]	26.8 [59]	42.6 [94]	201.4 [444]	169.6 [374]	406.0 [16.0]	533.4 [21.0]
5YCZ5030*1	63.1 [140]	36.3 [80]	30.4 [67]	50.3 [111]	223.6 [493]	180.1 [397]	388.6 [15.3]	558.8 [22.0]
5YCZ5036*1 (070)	62.6 [140]	36.3 [80]	30.4 [67]	50.3 [111]	223.2 [492]	179.6 [396]	388.6 [15.3]	558.8 [22.0]
5YCZ5036*1 (090)	63.1 [141]	36.7 [81]	30.8 [68]	51.3 [113]	225.4 [497]	181.9 [401]	388.6 [15.3]	558.8 [22.0]
5YCZ5042*1	66.5 [147]	50.8 [112]	45.8 [101]	68.5 [151]	289.7 [639]	231.6 [511]	444.5 [17.5]	698.5 [27.5]
5YCZ5048*1 (090)	78.8 [174]	50.8 [112]	45.8 [101]	68.5 [151]	301.9 [666]	243.9 [538]	444.5 [17.5]	698.5 [27.5]
5YCZ5048*1 (115)	83.7 [185]	46.3 [102]	42.2 [93]	73.5 [162]	303.8 [670]	245.7 [542]	419.1 [16.5]	706.1 [27.8]
5YCZ5060*1 (115)	81.5 [180]	46.3 [102]	43.1 [95]	76.7 [168]	305.6 [674]	247.6 [546]	401.3 [15.8]	711.2 [28.0]

Dimensional Data

Table 19. Weights and center of gravity (continued)

Model	Corner Weights KG[LBS]				Shipping Weight KG [LBS]	Unit Weight KG[LBS]	Center of Gravity mm[in.]	
	W1	W2	W3	W4			BB	CC
5YCZ5036*3 (070)	61.4 [135]	36.3 [80]	30.4 [67]	50.3 [111]	222.0 [489]	178.4 [393]	388.6 [15.3]	558.8 [22.0]
5YCZ5036*3 (090)	61.9 [136]	36.7 [81]	30.8 [68]	51.3 [113]	224.3 [494]	180.7 [398]	388.6 [15.3]	558.8 [22.0]
5YCZ5048*3 (090)	77.1 [170]	50.8 [112]	45.8 [101]	68.5 [151]	300.3 [662]	242.2 [534]	444.5 [17.5]	698.5 [27.5]
5YCZ5048*3 (115)	82.9 [183]	46.3 [102]	42.2 [93]	73.5 [162]	303.0 [668]	244.9 [540]	419.1 [16.5]	706.1 [27.8]
5YCZ5060*3 (115)	79.9 [176]	46.3 [102]	43.1 [95]	76.7 [168]	304.0 [670]	246.0 [542]	401.3 [15.8]	711.2 [28.0]
5YCZ5036*4 (070)	66.9 [147]	36.3 [80]	30.4 [67]	50.3 [111]	227.4 [501]	183.9 [405]	388.6 [15.3]	558.8 [22.0]
5YCZ5036*4 (090)	67.4 [149]	36.7 [81]	30.8 [68]	51.3 [113]	229.7 [506]	186.2 [410]	388.6 [15.3]	558.8 [22.0]
5YCZ5048*4 (090)	86.6 [191]	50.8 [112]	45.8 [101]	68.5 [151]	309.8 [683]	251.7 [555]	444.5 [17.5]	698.5 [27.5]
5YCZ5048*4 (115)	92.5 [204]	46.3 [102]	42.2 [93]	73.5 [162]	312.5 [689]	254.5 [561]	419.1 [16.5]	706.1 [27.8]
5YCZ5060*4 (115)	91.9 [203]	46.3 [102]	43.1 [95]	76.7 [168]	316.0 [697]	258.0 [569]	401.3 [15.8]	711.2 [28.0]

Mechanical Specifications

General

All units shall be factory assembled, piped, internally wired and fully charged with refrigerant. All units shall be designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities shall be rated in accordance with A.H.R.I. standards. The heating/cooling unit design is certified to ANSI 221.47/CSA2.3, specifically for outdoor applications using natural gas or propane. All units shall be designed for outdoor rooftop or ground level installation. Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint.

Shipped for horizontal application, convertible to downflow.

Casings

All panels shall be heavy gauge steel, gasketed and insulated. Foil-faced insulation shall be in the heat exchanger section. Foil-faced insulation shall be in the evaporator section. Base pan shall be heavy gauge steel. **WEATHERGUARD™** exterior corrosion resistant screws shall be used for added resistance to rust and corrosion.

Controls

Refrigeration cycle controls shall include condenser fan, evaporator fan and compressor contactors. Compressors shall be equipped with a combination internal winding thermostat/current overload. Internal high pressure relief shall also be provided.

Refrigeration System

Compressors —

The **Climatuff®** two-stage compressor features internal over temperature and pressure protector, total dipped hermetic motor. Other features include: centrifugal oil pump, and low vibration and noise.

Evaporator Coil —

(2 to 4 Ton Models) All aluminum micro channel, extruded tubes, mechanically bonded to aluminum fins and factory pressure tested at 480 psig and leak tested at 250 to 300 psig. All units have TXV to control refrigerant flow.

(5 Ton Models) Internally enhanced 3/8-in. OD seamless copper tubing mechanically bonded to aluminum fins, factory pressure tested at 480 psig and leak tested at 250 to 300 psig. All units have TXV to control refrigerant flow.

Condenser Coil —

The **Spine Fin™** condenser coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 3/8-in. OD seamless aluminum tubing glued to a continuous aluminum fin. Coils are lab tested to withstand 2,000 pounds of pressure per square inch. The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Indoor Air Fan — Direct-drive, forward-curved, centrifugal wheel in a Composite **Vortica®** Blower housing. Motor shall have thermal overload protection. Permanently lubricated motor bearings. Motor/blower assembly isolated from unit with rubber mounts.

Condenser Fan — Direct-drive, draw through propeller type. Weather-proofed permanent split capacitor fan motor shall have built-in thermal overload and permanently lubricated motor bearings.

Low Ambient — Standard refrigerant system operation down to 55°F. Low ambient accessory required for operation to 0°F ambient condition.

Gas-Fired Heating System — Models shall provide completely assembled, wired and piped gas fired heating systems within unit. Design certified by UL, specifically for outdoor application. Threaded gas connection on the unit.

Electronic Ignition System — Main burner is lit each time thermostat calls for gas heat. Flame sensor proves flame and keeps the main burners on. Should a loss of flame occur, the main valve closes and the spark recurs within 0.8 second. When thermostat is satisfied, main burner is extinguished.

Forced Combustion Blower — Insures flame stability under varying wind conditions. Gives higher combustion efficiency and location flexibility.

Mechanical Specifications

Heat Exchanger — stainless steel tubes. Free floating design.

Burners — stainless steel. Multi-port inshot.

Accessories (U.S. Domestic Models)

Roof Curb — The roof curb shall be designed to mate with the unit and provide support and complete weather-tight installation when properly installed. Curb shall ship knocked down for field assembly, and include wood nailer strips.

Modulating Economizer — This accessory shall be field installed and be composed of the following items: 0-100% fresh air damper, damper drive motor fixed dry bulb enthalpy control, and low voltage polarized plug for electrical connections. Solid state enthalpy or differential enthalpy control is optional. Economizer operations shall be controlled by the preset position of the enthalpy control. A barometric relief damper shall be standard with the economizer and provide a pressure operated damper that shall be gravity closing and prohibit entrance of outside air on equipment "off" cycle.

Manual Fresh Air Hood

Manual outside air provides a fixed outside air quantity from 0 to 25 percent. Includes hood and birdscreen.

Low Ambient Control

Control allows cycling of compressor under low ambient cooling conditions. Required for cooling operation to 0°F.

Propane Gas

Conversion Kit — For conversion from natural gas to LP gas.

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